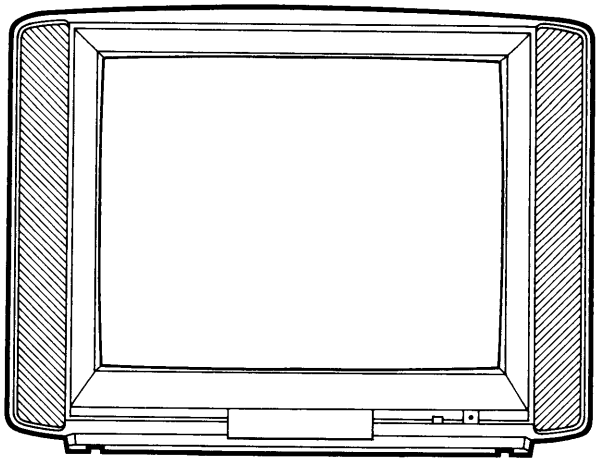
SERVICE DATA
FILE NO. 050-687
PAL-I SYSTEM

TOSHIBA

COLOUR TELEVISION

2939DB:3339DB



Printed in Japan Oct. 1993 (So)

SAFETY INSTRUCTIONS

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" INSTRUCTIONS BELOW.

X-RAY RADIATION PRECAUTION

1. The E.H.T. must be checked every time the receiver is serviced to ensure that the C.R.T. does not emit X-ray radiation as result of excessive E.H.T. voltage. The nominal E.H.T. for this receiver is 30.5 kV at zero beam current (minimum brightness) operating at 240V a.c. The maximum E.H.T. voltage permissible in any operating circumstances must not exceed 32.0 kV. When checking the E.H.T., use the 'High Voltage Check' procedure in this manual using an accurate E.H.T. voltmeter.
2. The only source of X-RAY radiation in this receiver is the C.R.T. To prevent X-ray radiation, the replacement C.R.T. must be identical to the original fitted as specified in the Parts List.
3. Some components used in this receiver have safety related characteristics preventing the C.R.T. from emitting X-ray radiation.
   For continued safety, replacement component should only be made after referring the Product Safety Notice below.

SAFETY PRECAUTION

1. This receiver has a nominal working E.H.T. voltage of 28.5 kV. Extreme caution should be exercised when working on the receiver with the back removed.
   Do not attempt to service this receiver if you are not conversant with the precautions and procedures for working on high voltage equipment.
   When handling or working on the C.R.T., always discharge the anode to the receiver chassis before removing the anode cap
   The C.R.T., if broken, will violently expel glass fragments. Use shatter proof goggles and take extreme care while handling.
   Do not hold the C.R.T. by the neck as this is a very dangerous practice.
2. It is essential that to maintain the safety of the customer all cable forms be replaced exactly as supplied from factory.
3. A small part of the chassis used in this receiver is, when operating, at approximately half mains potential at all times. It is therefore essential in the interest of safety that when serving or connecting any test equipment the receiver should be supplied via a suitable isolating transformer of adequate rating.
4. Replace blown fuses within the receiver with the fuse specified in the parts list.
5. When replacing wires or components to terminals or tags, wind the leads around the terminal before soldering. When replacing safety components identified by the international hazard symbols on the circuit diagram and parts list, it must be a Toshiba approved type and must be mounted as the original.
6. Keep wires away from high temperature components.

PRODUCT SAFETY NOTICE

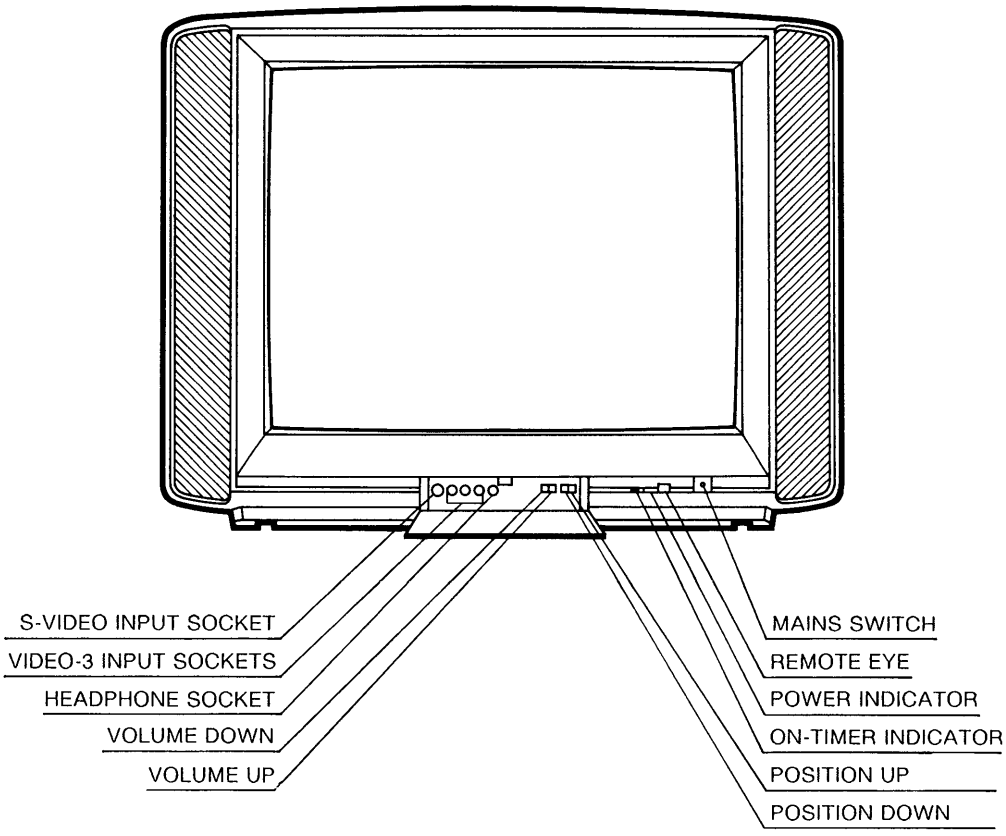
Many electrical and mechanical components in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the X-ray radiation protection afforded by them cannot necessarily be obtained by using replacements rated at higher voltages or wattage, etc. Components which have these special safety characteristics in this manual and its supplements are identified by the international hazard symbols on the schematic diagram and parts list. Before replacing any of these components read the parts list in this manual carefully. Substitute replacement components which do not have the same safety characteristics as specified in the parts list may create X-ray radiation.

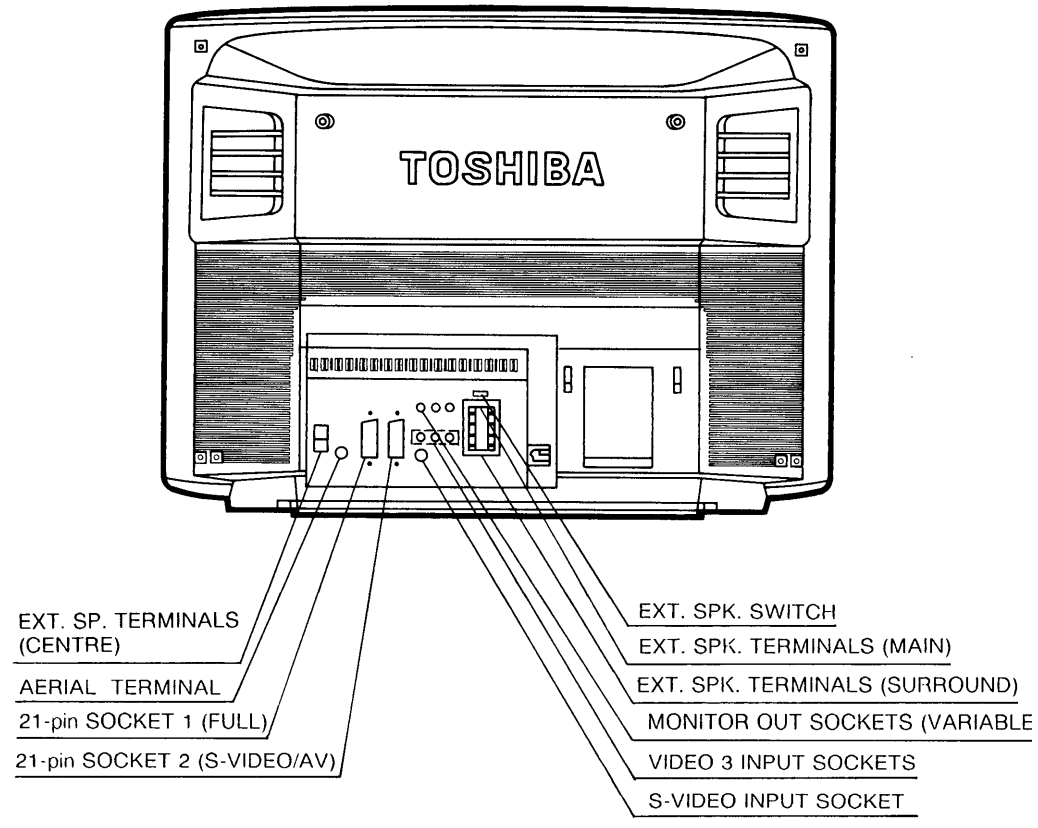
SPECIFICATIONS

Input Power Rating:	2939DB; 179 watts, AC 240 volts, 50 Hz 3339DB; 185 watts, AC 240 volts, 50 Hz
Aerial Input Impedance:	75 ohm unbalanced type for UHF
Receiving Channels:	PAL I Standard: UHF ..... channels 21 to 69
Intermediate Frequencies:	Picture I-F carrier frequency ..... 39.5 MHz Sound I-F carrier frequency ..... 33.5 MHz Colour sub-carrier frequency ..... 35.07 MHz
Picture Tube:	2939DB; 29 inches (680 mm viewable area), A68KLF96X02, 110° deflection 3339DB; 33 inches (800 mm viewable area), A80EBK221X11, 110° deflection
Sound Output:	10.0 watts x 2, 13 watts (Woofer) or 10 watts (centre speaker), 5 watts x 2 (Surround)
Speakers:	120 mm x 60 mm oval 2 pcs, 50 mm x 50 mm (Tweeter) 2 pcs 100 mm x 100 mm (Woofer), 80 mm x 80 mm (Surround) 2 pcs, 80 mm x 80 mm (Centre) 2 pcs
Aux. Terminals:	Headphone Jack, 21 pin sockets, S-VIDEO/AUDIO sockets, AUDIO/VIDEO INPUT sockets, Monitor OUTPUT sockets, External speaker terminals
Cabinet:	Table type
Dimensions:	2939DB; Height ..... 589 mm Width ..... 800 mm Depth ..... 510 mm 3339DB; Height ..... 685 mm Width ..... 931 mm Depth ..... 561 mm
Weight:	2939DB; 43 kg 3339DB; 54.7 kg
Features:	Video input of PAL/3.58N/4.43N, TELETEXT reception, Digital stereo system Dolby PRO.LOGIC surround system, ON/OFF-timer

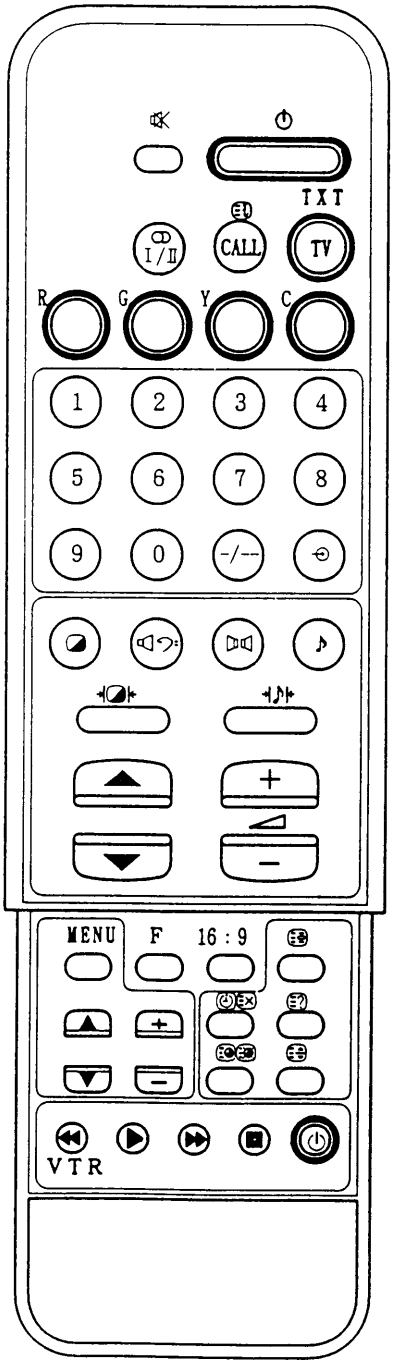
Specifications are subject to change without notice.

FRONT CONTROLS AND REAR VIEWS





REMOTE HAND HELD UNIT



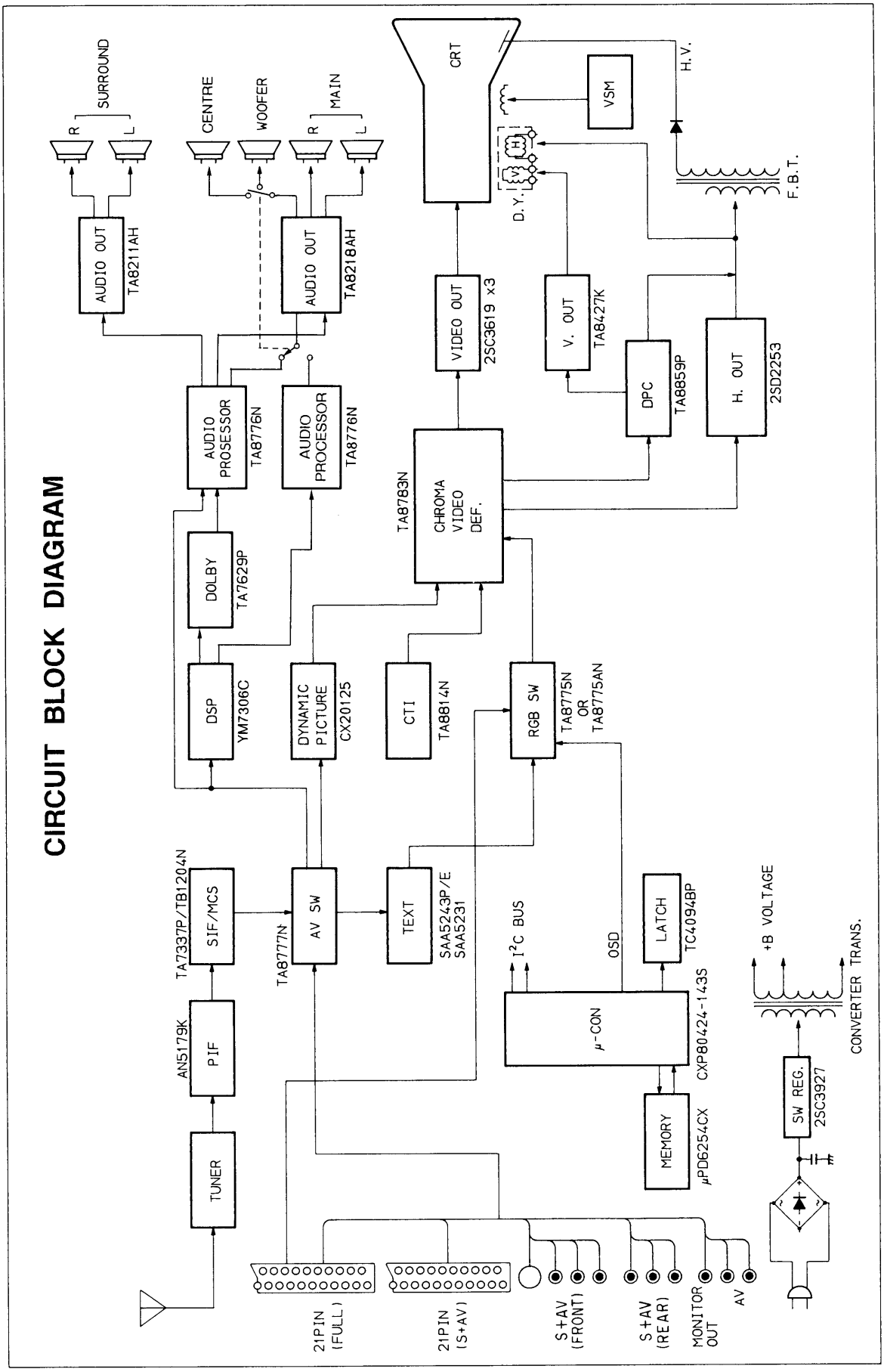
KEY ASSIGNMENT

- ON STANDBY ..... ON STAND-BY
- MUTE ..... MUTE
- TXT/TV .... TEXT/TV MODE SW.
- CALL ..... INDEX (TEXT MODE) / DISPLAY CALL (TV MODE)
- I/II ..... STEREO BILINGUAL
- TEXT — COLOUR KEY (4 keys used)
  R ; Red G ; Green Y ; Yellow C ; Cyan
- 1~9, 0 ... TEN KEY - / - - ... 1 or 2 place
- VIDEO INPUT ..... VIDEO INPUT
- PICTURE CONTROL MENU ..... PICTURE CONTROL MENU
- SUPER WOOFER (BAZOOKA) CONTROL MENU ..... SUPER WOOFER (BAZOOKA) CONTROL MENU
- SURROUND CONTROL MENU ..... SURROUND CONTROL MENU
- SOUND CONTROL MENU ..... SOUND CONTROL MENU
- SELECTABLE PICTURE ..... SELECTABLE PICTURE
- SMC ..... SMC (SOUND MENU CONTROL = SELECTABLE SOUNI
- + ... LEVEL PLUS [VOLUME ( ) & MENU]
- – ..... LEVEL MINUS [VOLUME ( ) & MENU]
- ▲ ..... UP (POSI., CH., TEXT PAGE)
- ▼ ..... DOWN (POSI., CH., TEXT PAGE)

OTHER MENU
- MENU ..... MENU PAGE SELECT
- ▲▼ ..... UP/DOWN = EACH MENU SELECT
- + – ..... LEVEL CONTROL & MODE SELECT
- F ..... QUICK & SERVICE MODE OPERATION KEY
- 16:9 ..... WIDE (16:9)/NORMAL (4:3) MODE SW.

TELE-TEXT
- HOLD ..... HOLD
- REVEAL ..... REVEAL
- F-T-B ..... F-T-B (FULL, TOP, BOTTOM)
- TIME DISPLAY/TXCL ..... TIME DISPLAY/TXCL (TEXT CLEAR)
- TIMED PAGE ON/OFF ..... TIMED PAGE ON/OFF

VTR
- ON STANDBY ..... ON STAND-BY ■ ..... STOP
- ► ..... PLAY
- ►► ..... FF/CUE ◄◄ ..... REV/REW


CIRCUIT BLOCK DIAGRAM
SURROUND
R
L
CENTRE
WOOFER
MAIN
R
L
CRT
H.V.
VSM
D.Y.
F.B.T.
AUDIO OUT
TA8211AH
AUDIO OUT
TA8218AH
VIDEO OUT
2SC3619 x3
V. OUT
TA8427K
DPC
TA8859P
H. OUT
2SD2253
AUDIO PROSESSOR
TA8776N
AUDIO PROCESSOR
TA8776N
TA8783N
CHROMA VIDEO DEF.
DOLBY
TA7629P
DSP
YM7306C
DYNAMIC PICTURE
CX20125
CTI
TA8814N
RGB SW
TA8775N OR TA8775AN
TA7337P/TB1204N
SIF/MCS
TA8777N
AV SW
TEXT
SAA5243P/E SAA5231
I²C BUS
OSD
LATCH
TC4094BP
AN5179K
PIF
μ-CON
CXP80424-143S
+B VOLTAGE
TUNER
MEMORY
μPD6254CX
SW REG.
2SC3927
CONVERTER TRANS.
21PIN (FULL)
21PIN (S+AV)
S+AV (FRONT)
S+AV (REAR)
MONITOR OUT
AV

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 2 OF THIS MANUAL.

INSTALLATION AND SERVICE ADJUSTMENTS

GENERAL INFORMATIONS

All adjustments are thoroughly checked and corrected when the receiver leaves the factory. Therefore the receiver should operate normally and produce proper colour and B/W pictures upon installation. However, several minor adjustments may be required depending on the particular location in which the receiver is operated.
This receiver is shipped completely in cardboard carton. Carefully draw out the receiver from the carton and remove all packing materials. Plug the power cord into a convenient 240 volts 50 Hz AC two pin power outlet. Turn the receiver ON. Check and adjust all the customer controls such as BRIGHTNESS, CONTRAST and COLOUR Controls to obtain natural colour or B/W picture.

AUTOMATIC DEGAUSSING

A degaussing coil is mounted around the picture tube so that external degaussing after moving the receiver is normally unnecessary, providing the receiver is properly degaussed upon installation. The degaussing coil operates for about 1 second after the power to the receiver is switched ON. If the set is moved or faced in a different direction, the power switch must be switched off at least one hour in order that the automatic degaussing circuit operates properly. Should the chassis or parts of the cabinet become magnetized to cause poor colour purity, use an external degaussing coil. Slowly move the degaussing coil around the faceplate of the picture tube, the sides and front of the receiver and slowly withdraw the coil to a distance of about 2 m before disconnecting it from AC source. If colour shading still persists, perform the COLOUR PURITY ADJUSTMENT and CONVERGENCE ADJUSTMENTS procedures.

HIGH VOLTAGE CHECK

CAUTION: There is no HIGH VOLTAGE ADJUSTMENT on this chassis.

1. Connect an accurate high voltage meter to the second anode of the picture tube.
2. Turn on the receiver. Set the BRIGHTNESS and CONTRAST Controls to minimum (zero beam current).
3. High voltage will be measured below 32.0 kV.
4. Rotate the BRIGHTNESS Control to both extremes to be sure the high voltage does not exceed the limit of 32.0 kV under any conditions.

HEIGHT ADJUSTMENT

1. Receive the WG PHILIPS pattern, and set the contrast, colour and brightness to centre.
2. Change the Sub Address VPS so the round shape in the pattern is located in the centre of screen.
3. Adjust the Sub Address HIT so that white blocks at top and bottom of the picture are just masked.

HORIZONTAL CENTRE ADJUSTMENT

1. Receive the WG PHILIPS pattern.
2. Set the contrast and colour to centre, and the brightness to centre.
3. Adjust Sub Address HPS so the pattern centre can be located at the screen centre.

FOCUS ADJUSTMENT

Adjust FOCUS Control on FLYBACK TRANS. (T461) for well defined scanning lines in the centre area on the screen.

RF AGC ADJUSTMENT

1. Tune the set in the strongest station in your area.
2. Turn RF AGC Control (R131) on PIF Board to fully counterclockwise position.
3. Adjust RF AGC Control clockwise until noise (snow) just disappears on the screen.

SIF FM DET (LD05) ADJUSTMENT

1. Connect SIF generator through 0.01 μF capacitor to pin DI of PD01 on NICAM Board.
2. Connect the oscilloscope to pin 9 of ICG03.
3. Set up the SIF generator as described below.
   Sound carrier frequency : 6.0 MHz
   Modulation frequency : 1000 Hz
   Frequency deviation : $\pm$15 kHz
   Signal level : 100 dBμ (50 ohm load)
4. Adjust LG04 for the maximum response of 1000 Hz det-out on scope.

PAL MATRIX ADJUSTMENT

1. Tune in the colour programme of the Philips pattern.
2. Set the COLOUR Control to obtain the proper colour.
3. If the PAL MATRIX adjustment is incorrect, the Venetian Blind would appear in the colour bars area. This case needs the adjustment.
4. At the first, adjust DL PHASE ADJ. Coil (L551) to minimize the Venetian Blind.
5. Next adjust 1H-DL ADJ. VR (R551) to minimize the Blind.
6. If the Venetian Blind still remains, adjust 1H-DL PHASE ADJ. Coil (L551) to minimize the Blind again.
7. Repeat the item 5 and 6 procedures, adjust the R551 and L551 until the Blind does not appear.

PICTURE I-F SWEEP ALIGNMENT

GENERAL ..... Refer to figure 1 for test equipment connection.
PRELIMINARY STEPS ..... 1. Supply +12 volts to the PIF Board.
2. Supply dc 2.5~3.0V to pin 16 of IC101.
3. Connect pin 6 of IC101 to ground through capacitor 10 μF.
SWEEP/MARKER GENERATOR..... Connect to pin BA of PIF Board as shown in figure 1.
Set to 30 ~ 40 MHz sweep with signal level of 75 ~ 85 dBμ.
OSCILLOSCOPE ..... Connect to pin 7 of IC101 on the IF Board through detector (See figure below).

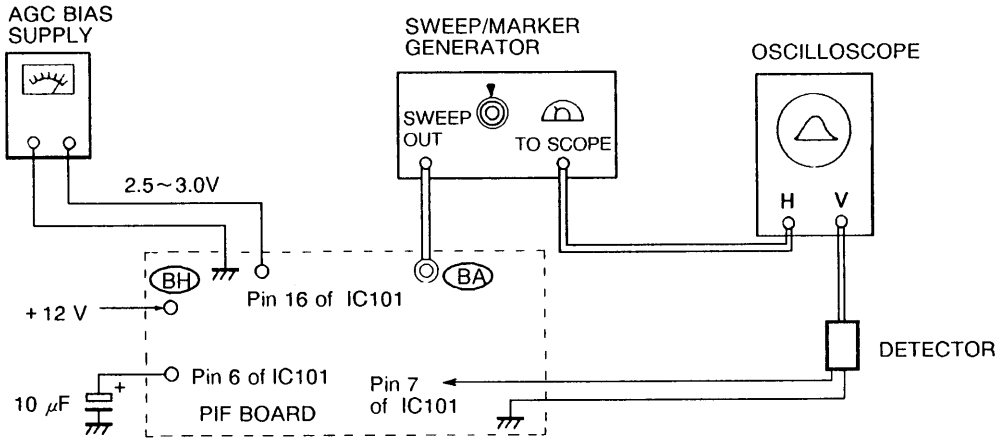
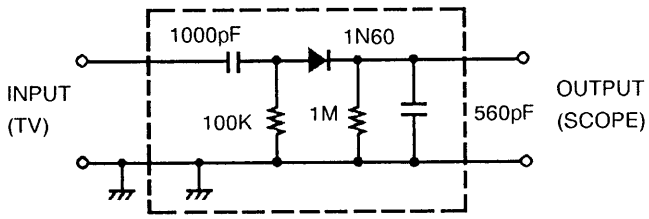


Figure 1. Picture IF Sweep Alignment

STEP	SWEEP/MARKER GENERATOR	ADJUST	REMARKS
39.5MHz VCO Coil	39.5 MHz Marker "ON"	L113	• Adjust L113 so that the marker (39.5 MHz) on the response can get zero beat with free-run frequency. (See figure 2.) • Remove the capacitor 10μF on pin 6 of IC101.
After completing the above step, disconnect the equipment and re-solder the solder links, and adjust the RF AGC control (R131) following RF AGC ADJUSTMENTS.			

Figure 2. Magnified Response Curve



Detector Diagram

AFC ALIGNMENT

GENERAL ..... Refer to figure 3 for test equipment connection.
PRELIMINARY STEPS ..... 1. Supply +12 volts to the PIF Board.
DVM ..... Connect to the pin BN of P101A on PIF Board and ground.

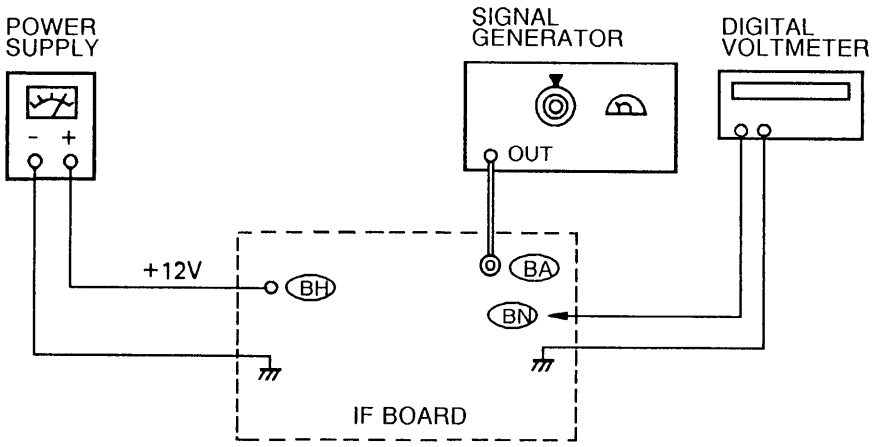


Figure 3. AFC Alignment

STEP	SIGNAL GENERATOR	ADJUST	REMARKS
1. AFC Balance (R144)	NO SIGNAL	R144	• Connect pin 16 of IC101 to ground. • Connect DVM to pin BN of P101A on PIF Board. • Adjust R144 for 4.5 volts reading on meter.
2. AFC Coil (L109)	39.5 MHz CARRIER WAVE (Level : 75 to 85 dBμ)	L109	• Remove the short of pin 16 of IC101. • Connect IF carrier wave to the pin BA of P102A. • Connect DVM to pin BN of P101A. • Adjust L152 for 4.5 volts on the meter.

CRT GREY SCALE ADJUSTMENT

1. Tune in an active channel.
2. Set "SERVICE MODE" by RMT H.H.U. ((F) + ⊖ and (1), (0), (4), (8))
3. Turn the SCREEN Control (on T461) fully counter-clockwise.
4. By rotating the RED, GREEN and BLUE CUT OFF Controls (R557, R558, R559) to the mid position.
5. Set the GREEN and BLUE DRIVE Controls (R252, R253) to the center.
6. Set the "CUT OFF (No Vertical Deflection) MODE" by RMT H.H.U. ((F) + (2) key)
7. Rotate the SCREEN Control gradually clockwise until the first line appears slightly on the screen. Set the SCREEN Control to this position.
8. Adjust the CUT OFF Controls to obtain the slightly lighted horizontal lines in the same levels of three colours (RED, GREEN and BLUE).
   The lines may look like white if the CUT OFF Controls are adjusted properly.
9. Release the "CUT OFF MODE" by RMT H.H.U. ((F) + (2) key)
10. Set the CONTRAST and COLOUR Controls to minimum, and BRIGHTNESS Control to the maximum.
11. Adjust the BLUE and GREEN DRIVE Controls (R252/R253) to obtain proper white-balanced picture in high light areas.
12. Set the BRIGHTNESS and CONTRAST Controls to obtain dark grey raster. Then check the white balance in low brightness. If the white balance is not proper, retouch the CUT OFF Controls and DRIVE Controls to obtain a good white balance in both low and high light areas.
13. Exit from the "SERVICE MODE" by turning the power ON/OFF with RMT H.H.U.

SUB-BRIGHTNESS ADJUSTMENT

1. Tune in a colour programme.
2. Set the "SERVICE MODE" by RMT H.H.U.
3. Set the CONTRAST Control to the maximum and BRIGHT Control to the center.
4. Set the COLOUR Control to the minimum.
5. Select the "SUB" symbol (F + ◪ (Item UP), F + ♪ (Item DN)) and adjust the level to the center by LEVEL key of RMT H.H.U. and leave the TV for five minutes in this state.
6. Watching the picture well, adjust the SUB-BRIGHT Control in the position (same method as in step No.5) where the picture does not show evidence of blooming in high bright area and not appear too dark in low bright portion.
7. Check the proper picture variation by rotating the CONTRAST and BRIGHTNESS Controls to both extremes.
8. If the picture does not appear dark with the CONTRAST and BRIGHTNESS Controls turned to minimum, or not appear bright with the controls turned to the maximum, adjust the SUB-BRIGHT Control again for the acceptable picture.
9. Exit from the "SERVICE MODE" by turning the power ON/OFF with the RMT H.H.U.

ADJUSTMENT METHOD FOR SERVICING

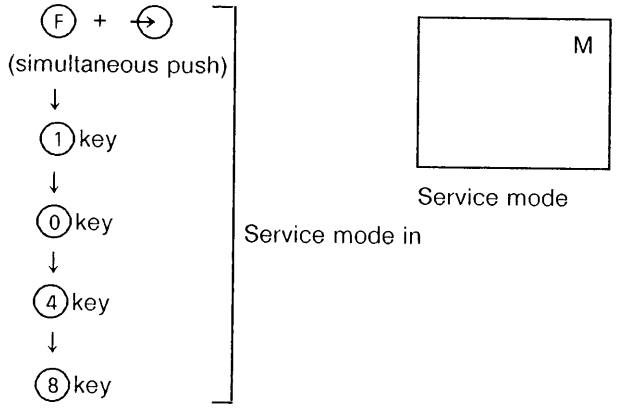
1. OUTLINE

Since each IC used is of I²C bus control type, readjustment of the TVs also needs adjustment through I²C bus control.

In the service mode, sub-bright, deflection system sub-adjustments, picture system sub-adjustments can be made easily with user remote control unit.

2. SERVICE MODE OPERATION

2-1. How to Enter the Service Mode



2-2. How to Exit from the Service Mode

Exit the service mode by turning the power on/off with the remote control.

3. ADJUSTMENT IN THE SERVICE MODE

3-1. Service Mode Level Adjustments

(1) Push (F) + ◪ key (simultaneous push) (item UP) or (F) + ♪ key (simultaneous push) (item DN) to select item to be adjusted.

(2) Adjust with the level UP/DN (VOL UP/DN key) key.

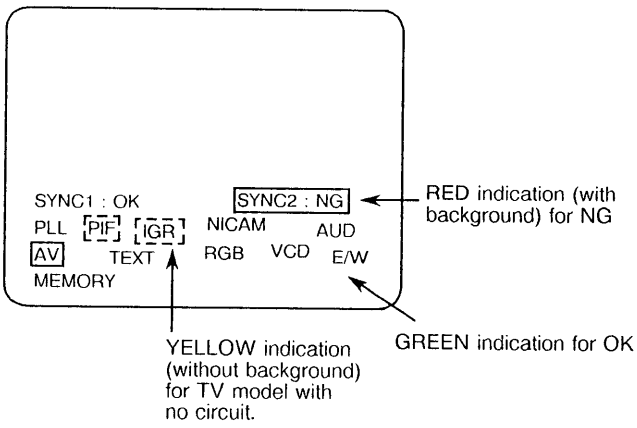
3-2. Other Service Mode Adjustments

(F) + (2) key (simultaneous push) cut off:
(NO VERTICAL DEFLECTION) ON/OFF

4. SELF CHECK

(1) Indicates sync signal and acknowledgement of each IC.

(2) Example of display on screen



(3) Operation:

① TV gets into service mode with key operation;

(F) + → → 1 key → 0 key → 4 key → 8 key

② TV indicates screen with (F) + 4 key.

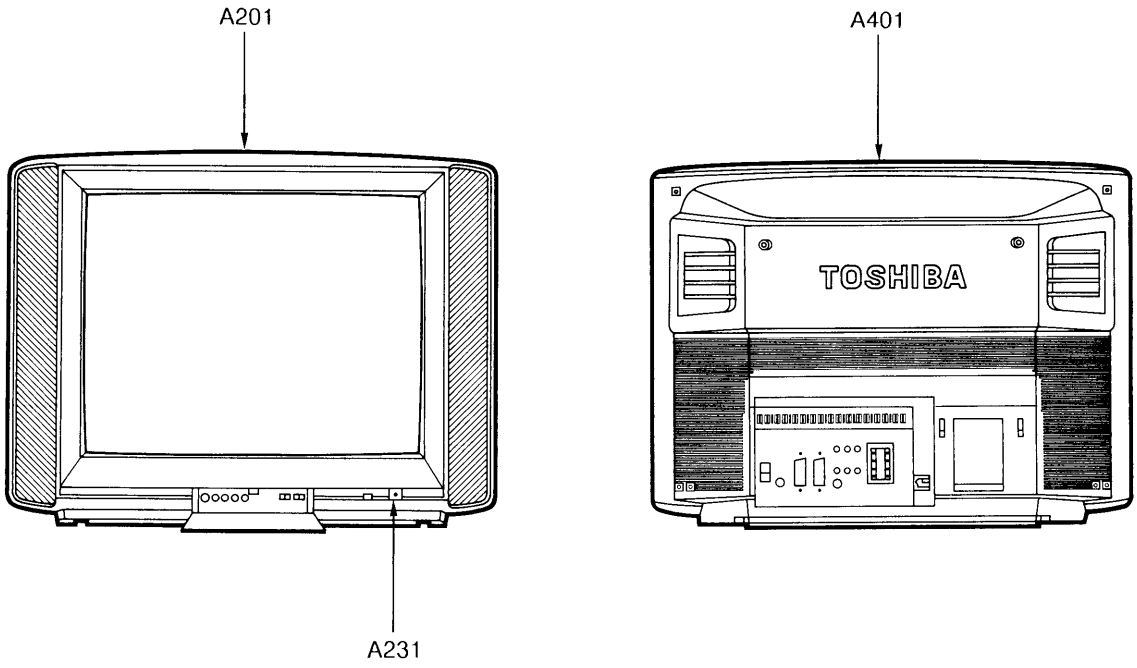
5. ROM DATA LIST FOR IIC BUS CONTROL

(Reference Value)

Symbol	Comment	Data
M00	MODE0	43
M01	MODE1	41
M02	MODE2	4
M03	MODE3	13
SUB	SUB BRIGHTNESS	* 31
SBM	BRIGHTNESS VARIABLE RANGE	28
SCN	SUB CONTRAST	31
SCX	SUB CONTRAST MAXIMUM	63
SCM	SUB CONTRAST MINIMUM	10
SCL	SUB COLOUR 443	34
SC3	SUB COLOUR 358	31
ST1	SUB TINT	44
SS4	SUB SHARP 443	50
SS3	SUB SHARP 358	40
LVE	L-SECAM OUTPUT LEVEL	
RFA	RFAGC	
HPS	H-POSITION	* 28
HIT	HEIGHT	* 35
LIN	V. LINEARITY	32
VSC	V. S-CORRECTION	32
VPS	V. POSITION	* 39
VCP	V. COMPENSATION	30
WID	H. WIDTH	* 18
DPC	DPC	* 18
CNR	DPC CORNER	14
KEY	KEYSTONE	* 12
HCP	H. COMPENSATION	00
VMC	V. M-CORRECTION	41
SLI	16 : 9 SUB LINEARITY	28
SDP	16 : 9 SUB DPC	25
SVS	16 : 9 SUB V. S-CORRECTION	23
SCS	16 : 9 SUB CONTRAST	38
SXS	16 : 9 SUB CONTRAST MAXIMUM	10

* Mark items should be adjusted.

CABINET REPLACEMENT PARTS LIST



2939DB

Location No.	Part No.	Description
A003	23410179	Speaker Box Assembly
A201	23410124	Front Cover
A231	23443813	Button, POWER
A241	70368125	Push Catch
A242	23425740	Door
A302A	23415207	Back, Speaker Box
A303A	23161703	Terminal, 2P
A305A	23858524	Spacer
A306A	23523227	Carton Box, Speaker Box
A330	23410180	Speaker Box
A340	23410181	Front Cover, Speaker Box
A341	23425739	Back Cover, Speaker Box
A344	23161703	Terminal, 2P
A401	23425741	Back Cover
A402	23416525	Speaker Grille, Woofer
A411	23568725	Label, Model No., B/C
A440	23425742	Back Cover, Proper
A701	23524117	Carton Box
A702	23935102	Packing, Bottom
A703	23935134	Packing, Top
A705	23541008	Bag
A710	23568726	Label, Model No., Carton

3339DB

Location No.	Part No.	Description
A003	23410179	Speaker Box Assembly
A201S	23410201	Front Cover
A213	23425320	Bottom Cover
A231	23443818	Button, POWER
A241	70368125	Push Catch
A242	23425771	Door
A302A	23415207	Back, Speaker Box
A303A	23161703	Terminal, 2P
A305A	23858524	Spacer
A306A	23523227	Carton Box, Speaker Box
A330	23410180	Speaker Box
A340	23410181	Front Cover, Speaker Box
A341	23425739	Back Cover, Speaker Box
A344	23161703	Terminal, 2P
A401	23425772	Back Cover
A402	23416525	Speaker Grille, Woofer
A411	23568819	Label, Model No., B/C
A701	23524127	Carton Box
A702	23935139	Packing, Bottom
A703	23935140	Packing, Top
A704	23524175	Tray
A706	23974753	PP Band
A707	23524176	Spacer(A)
A708	23524177	Spacer(B)
A710	23568820	Label, Model No., Carton

CHASSIS REPLACEMENT PARTS LIST

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION" , "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 2 OF THIS MANUAL.

CAUTION: The international hazard symbols in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 2. Do not degrade the safety of the receiver through improper servicing.

NOTICE: The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.

ABBREVIATIONS:

Capacitors.....	CD	: Ceramic Disk	PF	: Plastic Film	EL	: Electrolytic
Resistors.....	CF	: Carbon Film	CC	: Carbon Composition	MF	: Metal Film
	OMF	: Oxide Metal Film	VR	: Variable Resistor	FR	: Fusible Resistor

(All CD and PF capacitors are ±5%, 50V and all resistors, ±5%, 1/6W unless otherwise noted.)

Location No.	Part No.	Description
CAPACITORS		
C101	24814103	Chip, 0.01μF, +80%, −20%
C102	24814103	Chip, 0.01μF, +80%, −20%
C103	24794101	EL, 100μF, ±20%, 16V
C104	24794471	EL, 470μF, ±20%, 16V
C105	24814103	Chip, 0.01μF, +80%, −20%
C106	24794101	EL, 100μF, ±20%, 16V
C107	24815102	Chip, 1000pF, ±10%
C109	24815102	Chip, 1000pF, ±10%
C114	24815102	Chip, 1000pF, ±10%
C115	24815102	Chip, 1000pF, ±10%
C116	24814103	Chip, 0.01μF, +80%, −20%
C117	24815102	Chip, 1000pF, ±10%
C118	24815102	Chip, 1000pF, ±10%
C119	24814103	Chip, 0.01μF, +80%, −20%
C120	24815102	Chip, 1000pF, ±10%
C121	24815102	Chip, 1000pF, ±10%
C122	24794330	EL, 33μF, ±20%, 16V
C123	24203330	EL, 33μF, ±20%, 16V
C124	24814103	Chip, 0.01μF, +80%, −20%
C125	24814103	Chip, 0.01μF, +80%, −20%
C126	24815102	Chip, 1000pF, ±10%
C127	24815102	Chip, 1000pF, ±10%
C128	24815102	Chip, 1000pF, ±10%
C130	24814103	Chip, 0.01μF, +80%, −20%
C131	24203470	EL, 47μF, ±20%, 16V
C132	24203330	EL, 33μF, ±20%, 16V
C133	24814103	Chip, 0.01μF, +80%, −20%
C134	24085958	EL, 1μF, ±20%, 50V, Non-Polar
C135	24206478	EL, 0.47μF, 50V
C136	24814103	Chip, 0.01μF, +80%, −20%
C137	24781150	Chip, 15pF, SL
C138	24814103	Chip, 0.01μF, +80%, −20%
C141	24206478	EL, 0.47μF, 50V
C142	24814103	Chip, 0.01μF, +80%, −20%
C180	24797229	EL, 2.2μF, ±20%, 50V
C182	24232103	CD, 0.01μF, +80%, −20%
C183	24797229	EL, 2.2μF, ±20%, 50V
C184	24797229	EL, 2.2μF, ±20%, 50V
C185	24232103	CD, 0.01μF, +80%, −20%

Location No.	Part No.	Description
C187	24232103	CD, 0.01μF, +80%, −20%
C188	24232103	CD, 0.01μF, +80%, −20%
C189	24797010	EL, 1μF, ±20%, 50V
C190	24794330	EL, 33μF, ±20%, 16V
C191	24797010	EL, 1μF, ±20%, 50V
C192	24436101	CD, 100pF
C193	24212561	CD, 560pF, ±10%
C194	24212472	CD, 4700pF, ±10%
C195	24797229	EL, 2.2μF, ±20%, 50V
C196	24232103	CD, 0.01μF, +80%, −20%
C201	24797100	EL, 10μF, ±20%, 50V
C202	24795101	EL, 100μF, ±20%, 25V
C203	24232103	CD, 0.01μF, +80%, −20%
C204	24797220	EL, 22μF, ±20%, 50V
C205	24797478	EL, 0.47μF, ±20%, 50V
C208	24232103	CD, 0.01μF, +80%, −20%
C209	24797010	EL, 1μF, ±20%, 50V
C212	24436101	CD, 100pF
C213	24794471	EL, 470μF, ±20%, 16V
C230	24473620	CD, 62pF
C232	24474101	CD, 100pF, ±10%
C240	24797478	EL, 0.47μF, ±20%, 50V
C301	24797229	EL, 2.2μF, ±20%, 50V
C302	24212152	CD, 1500pF, ±10%
C303	24214221	CD, 220pF, ±10%, 500V (2939DB)
C304	24590102	PF, 1000pF
C305	24617915	EL, 1μF, ±10%, 50V
C306	24795472	EL, 4700μF, ±20%, 25V
C307	24693473	PF, 0.047μF, 100V
C310	24765102	EL, 1000μF, ±20%, 35V
C311	24214151	CD, 150pF, ±10%, 500V
C313	24082057	PF, 0.22μF, 100V
C314	24591563	PF, 0.056μF
C315	24538104	PF, 0.1μF
C316	24538474	PF, 0.47μF
C317	24617926	EL, 220μF, ±20%, 16V
C318	24796221	EL, 220μF, ±20%, 35V
C319	24212102	CD, 1000pF, ±10%
C320	24765221	EL, 220μF, ±20%, 35V
C321	24591183	PF, 0.018μF

Location No.	Part No.	Description
C322	24617912	EL, 2.2μF, ±10%, 50V
C323	24538474	PF, 0.47μF
C378	24538104	PF, 0.1μF
C402	24353241	CD, 240pF
C403	24797339	EL, 3.3μF, ±20%, 50V
C405	24590203	PF, 0.02μF
C406	24590153	PF, 0.015μF
C407	24590243	PF, 0.024μF
C408	24794331	EL, 330μF, ±20%, 16V
C409	24232103	CD, 0.01μF, +80%, −20%
C410	24082261	PF, 5600pF, 100V
C411	24435330	CD, 33pF, 500V
C413	24214821	CD, 820pF, ±10%, 500V
C414	24590122	PF, 1200pF (2939DB)
C414	24436681	CD, 680pF (3339DB)
C416	24709100	EL, 10μF, ±20%, 200V
C417	24214391	CD, 390pF, ±10%, 500V
C421	24095749	PF, 0.27μF, 200V (2939DB)
C422	24095743	PF, 0.15μF, 200V (2939DB)
C422	24829433	PF, 0.043μF, 400V (3339DB)
⚠C423	24095757	PF, 0.54μF, 200V (2939DB)
⚠C423	24095786	PF, 0.34μF, 400V (3339DB)
C430	24538474	PF, 0.47μF
⚠C440	24082346	PF, 6600pF, ±3%, 1500V (2939DB)
⚠C440	24082352	PF, 7500pF, ±3%, 1500V (3339DB)
C441	24214221	CD, 220pF, ±10%, 500V (2939DB)
C443	24214221	CD, 220pF, ±10%, 500V (2939DB)
C444	24082291	PF, 7500pF, ±3%, 1800V (2939DB)
C444	24082289	PF, 6200pF, ±3%, 1800V (3339DB)
C445	24095903	PF, 0.056μF, ±10%, 250V
C446	24095883	PF, 0.015μF, ±3%, 630V
C447	24679479	EL, 4.7μF, ±20%, 250V
C448	24640962	EL, 33μF, ±20%, 200V
C449	24667102	EL, 1000μF, ±20%, 25V
C450	24794471	EL, 470μF, ±20%, 16V
⚠C463	24212222	CD, 2200pF, ±10%
C464	24095758	PF, 0.62μF, 200V (2939DB)
C465	24082005	PF, 0.75μF, 200V (2939DB)
C466	24095682	PF, 0.12μF, 200V (2939DB)
C466	24095751	PF, 0.33μF, 200V (3339DB)
C470	24666220	EL, 22μF, ±20%, 16V
C471	24538474	PF, 0.47μF
C501	24797220	EL, 22μF, ±20%, 50V
C502	24436181	CD, 180pF
C504	24353150	CD, 15pF
C505	24590273	PF, 0.027μF
C506	24590273	PF, 0.027μF
C507	24590103	PF, 0.01μF
C508	24085944	EL, 2.2μF, ±20%, 50V, Non-Polar
C509	24353330	CD, 33pF
C510	24232103	CD, 0.01μF, +80%, −20%
C511	24232103	CD, 0.01μF, +80%, −20%
C512	24353200	CD, 20pF
C513	24232103	CD, 0.01μF, +80%, −20%
C515	24797220	EL, 22μF, ±20%, 50V
C516	24590104	PF, 0.1μF
C517	24590104	PF, 0.1μF

Location No.	Part No.	Description
C518	24232103	CD, 0.01μF, +80%, −20%
C519	24232103	CD, 0.01μF, +80%, −20%
C520	24797478	EL, 0.47μF, ±20%, 50V
C521	24538474	PF, 0.47μF
C522	24538474	PF, 0.47μF
C523	24538474	PF, 0.47μF
C525	24436270	CD, 27pF
C526	24436270	CD, 27pF
C527	24436270	CD, 27pF
C528	24436470	CD, 47pF
C529	24353300	CD, 30pF
C530	24796220	EL, 22μF, ±20%, 35V
C531	24794100	EL, 10μF, ±20%, 16V
C532	24436101	CD, 100pF
C533	24436101	CD, 100pF
C534	24436101	CD, 100pF
C535	24797100	EL, 10μF, ±20%, 50V
C540	24436301	CD, 300pF (2939DB)
C540	24436391	CD, 390pF (3339DB)
C541	24436301	CD, 300pF (2939DB)
C541	24436331	CD, 330pF (3339DB)
C542	24436301	CD, 300pF (2939DB)
C542	24436331	CD, 330pF (3339DB)
C590	24794471	EL, 470μF, ±20%, 16V
C591	24797478	EL, 0.47μF, ±20%, 50V
C601	24814103	Chip, 0.01μF, +80%, −20%
C602	24814103	Chip, 0.01μF, +80%, −20%
C603	24203330	EL, 33μF, ±20%, 16V
C666	24232103	CD, 0.01μF, +80%, −20%
C670	24590104	PF, 0.1μF
C672	24667470	EL, 47μF, ±20%, 25V
C673	24797010	EL, 1μF, ±20%, 50V
C674	24590562	PF, 5600pF
C675	24797010	EL, 1μF, ±20%, 50V
C676	24590272	PF, 2700pF
C677	24590562	PF, 5600pF
C678	24667470	EL, 47μF, ±20%, 25V
C679	24797010	EL, 1μF, ±20%, 50V
C680	24667470	EL, 47μF, ±20%, 25V
C681	24667470	EL, 47μF, ±20%, 25V
C682	24668101	EL, 100μF, ±20%, 35V
C683	24668102	EL, 1000μF, ±20%, 35V
C684	24591124	PF, 0.12μF
C685	24668102	EL, 1000μF, ±20%, 35V
C686	24591124	PF, 0.12μF
C687	24668102	EL, 1000μF, ±20%, 35V
C688	24591124	PF, 0.12μF
C690	24590222	PF, 2200pF
C701	24203470	EL, 47μF, ±20%, 16V
C702	24203101	EL, 100μF, ±20%, 16V
C703	24436820	CD, 82pF
C704	24232103	CD, 0.01μF, +80%, −20%
C705	24212103	CD, 0.01μF, ±10%
C706	24436470	CD, 47pF
C707	24203470	EL, 47μF, ±20%, 16V
C708	24212103	CD, 0.01μF, ±10%
C712	24203470	EL, 47μF, ±20%, 16V
C713	24790100	EL, 10μF, ±20%, 160V
C714	24212101	CD, 100pF, ±10%
C715	24214472	CD, 4700pF, ±10%, 500V
C716	24212101	CD, 100pF, ±10%
C717	24214472	CD, 4700pF, ±10%, 500V
C718	24790470	EL, 47μF, ±20%, 160V
C719	24434560	CD, 56pF, ±10%, 500V

Location No.	Part No.	Description
C720	24790100	EL, 10μF, ±20%, 160V
C721(U903)	24790470	EL, 47μF, ±20%, 160V
C721(U902)	24436430	CD, 43pF
C722	24212561	CD, 560pF, ±10%
C723	24436101	CD, 100pF
C766	24436300	CD, 30pF
⚠C801	24098999	PF, 0.1μF, ±20%, AC250V
⚠C802	24094655	CD, 1000pF, ±20%, AC400V
⚠C803	24094655	CD, 1000pF, ±20%, AC400V
⚠C804	24098999	PF, 0.1μF, ±20%, AC250V
C805	24092281	CD, 4700pF, ±20%, AC250V
C806	24092281	CD, 4700pF, ±20%, AC250V
C807	24092281	CD, 4700pF, ±20%, AC250V
C808	24092281	CD, 4700pF, ±20%, AC250V
C809	24086873	EL, 330μF, ±20%, 400V
C820	24591183	PF, 0.018μF
C821	24794102	EL, 1000μF, ±20%, 16V
C822	24095634	PF, 0.01μF, ±3%, 630V
C823	24092343	CD, 680pF, ±10%, 2kV
C824	24095937	PF, 1200pF, 1250V
C825	24212151	CD, 150pF, ±10%
C826	24795471	EL, 470μF, ±20%, 25V
C827	24797102	EL, 1000μF, ±20%, 50V
C828	24796222	EL, 2200μF, ±20%, 35V
C829	24092339	CD, 330pF, ±10%, 2kV
C830	24092337	CD, 220pF, ±10%, 2kV
C831	24086939	EL, 330μF, ±20%, 200V
C833	24436030	CD, 3pF, ±0.25pF
C834	24590122	PF, 1200pF
C835	24797479	EL, 4.7μF, ±20%, 50V
C836	24797100	EL, 10μF, ±20%, 50V
C837	24797100	EL, 10μF, ±20%, 50V
C838	24214471	CD, 470pF, ±10%, 500V
C840	24214471	CD, 470pF, ±10%, 500V
C841	24435390	CD, 39pF, 500V
C842	24435390	CD, 39pF, 500V
C843	24797100	EL, 10μF, ±20%, 50V
C844	24094656	CD, 2200pF, ±20%, AC400V
C845	24794471	EL, 470μF, ±20%, 16V
C846	24082047	PF, 0.033μF, 100V
C847	24538333	PF, 0.033μF
C849	24214471	CD, 470pF, ±10%, 500V
C850	24214561	CD, 560pF, ±10%, 500V
C851	24214561	CD, 560pF, ±10%, 500V
C852	24214182	CD, 1800pF, ±10%, 500V
C853	24501221	PF, 220pF
C854	24794102	EL, 1000μF, ±20%, 16V
C855	24212101	CD, 100pF, ±10%
C856	24436271	CD, 270pF
C860	24795221	EL, 220μF, ±20%, 25V
C861	24232103	CD, 0.01μF, +80%, −20%
C901	24700100	EL, 10μF, ±20%, 250V
C902	24095933	PF, 1800pF, 1250V
CA10	24212102	CD, 1000pF, ±10%
CA11	24794100	EL, 10μF, ±20%, 16V
CA12	24794102	EL, 1000μF, ±20%, 16V
CA13	24794100	EL, 10μF, ±20%, 16V
CA15	24590104	PF, 0.1μF
CA16	24794100	EL, 10μF, ±20%, 16V
CA17	24590104	PF, 0.1μF
CA22	24797229	EL, 2.2μF, ±20%, 50V
CA23	24232103	CD, 0.01μF, +80%, −20%
CA29	24538474	PF, 0.47μF
CA31	24436300	CD, 30pF

Location No.	Part No.	Description
CA32	24436300	CD, 30pF
CA36	24590104	PF, 0.1μF
CA70	24797010	EL, 1μF, ±20%, 50V
CA71	24212102	CD, 1000pF, ±10%
CA72	24212472	CD, 4700pF, ±10%
CA73	24797229	EL, 2.2μF, ±20%, 50V
CA74	24232103	CD, 0.01μF, +80%, −20%
CA75	24436561	CD, 560pF
CA76	24794330	EL, 33μF, ±20%, 16V
CA77	24232103	CD, 0.01μF, +80%, −20%
CB01(U902)	24436101	CD, 100pF
CB01(U904)	24797470	EL, 47μF, ±20%, 50V
CB10	24797100	EL, 10μF, ±20%, 50V
CB11	24232103	CD, 0.01μF, +80%, −20%
CB21	24206478	EL, 0.47μF, 50V
CD01(UD01)	24814103	Chip, 0.01μF, +80%, −20%
CD01(U904)	24796101	EL, 100μF, ±20%, 35V
CD04	24814103	Chip, 0.01μF, +80%, −20%
CD05	24814103	Chip, 0.01μF, +80%, −20%
CD06	24781101	Chip, 100pF, SL
CD07	24774200	Chip, 20pF, CH
CD10	24774470	Chip, 47pF, CH
CD11(UD01)	24815103	Chip, 0.01μF, ±10%
CD11(U904)	24676229	EL, 2.2μF, ±20%, 50V (2939DB)
CD11(U904)	24640872	EL, 10μF, ±20%, 100V (3339DB)
CD12	24538474	PF, 0.47μF
CD14	24814103	Chip, 0.01μF, +80%, −20%
CD15	24203100	EL, 10μF, ±20%, 16V
CD16	24203100	EL, 10μF, ±20%, 16V
CD17	24814103	Chip, 0.01μF, +80%, −20%
CD18	24814103	Chip, 0.01μF, +80%, −20%
CD19	24203330	EL, 33μF, ±20%, 16V
CD20	24538104	PF, 0.1μF
CD21	24538683	PF, 0.068μF
CD23	24538683	PF, 0.068μF
CD25	24206010	EL, 1μF, 50V
CD26	24203470	EL, 47μF, ±20%, 16V
CD27	24203470	EL, 47μF, ±20%, 16V
CD28	24206010	EL, 1μF, 50V
CD29	24814103	Chip, 0.01μF, +80%, −20%
CD30	24203101	EL, 100μF, ±20%, 16V
CD31	24814103	Chip, 0.01μF, +80%, −20%
CD32	24814103	Chip, 0.01μF, +80%, −20%
CD33	24538474	PF, 0.47μF
CD34	24774220	Chip, 22pF, CH
CD35	24774270	Chip, 27pF, CH
CD36	24538474	PF, 0.47μF
CD37	24538104	PF, 0.1μF
CD38	24538104	PF, 0.1μF
CD39	24203100	EL, 10μF, ±20%, 16V
CD40	24206229	EL, 2.2μF, 50V
CD41	24206229	EL, 2.2μF, 50V
CD42	24203100	EL, 10μF, ±20%, 16V
CD43	24203100	EL, 10μF, ±20%, 16V
CD44	24814103	Chip, 0.01μF, +80%, −20%
CD45	24203101	EL, 100μF, ±20%, 16V
CD46	24814103	Chip, 0.01μF, +80%, −20%
CD47	24781241	Chip, 240pF, SL
CD48	24781431	Chip, 430pF, SL
CD49	24781241	Chip, 240pF, SL
CD50	24781431	Chip, 430pF, SL
CD51	24774330	Chip, 33pF, CH

Location No.	Part No.	Description
CD55	24232103	CD, 0.01μF, +80%, −20%
CD71	24292106	Chip, 10μF, ±20%, 10V
CD72	24285104	Chip, 0.1μF, ±10%, B
CE61	24794100	EL, 10μF, ±20%, 16V
CE62	24797010	EL, 1μF, ±20%, 50V
CE65	24794100	EL, 10μF, ±20%, 16V
CE66	24794470	EL, 47μF, ±20%, 16V
CF01	24814103	Chip, 0.01μF, +80%, −20%
CF02	24794100	EL, 10μF, ±20%, 16V
CF03	24538224	PF, 0.22μF
CF04	24085944	EL, 2.2μF, ±20%, 50V, Non-Polar
CF05	24590683	PF, 0.068μF
CF06	24781221	Chip, 220pF, SL
CF08	24590473	PF, 0.047μF
CF09	24774180	Chip, 18pF
CF11	24590473	PF, 0.047μF
CF12	24794470	EL, 47μF, ±20%, 16V
CF13	24814103	Chip, 0.01μF, +80%, −20%
CF14	24814103	Chip, 0.01μF, +80%, −20%
CF16	24774180	Chip, 18pF
CF20	24781150	Chip, 15pF, SL
CF21	24590102	PF, 1000pF
CF22	24781471	Chip, 470pF
CF23	24590223	PF, 0.022μF
CF24	24781271	Chip, 270pF, SL
CF25	24781101	Chip, 100pF, SL
CF26	24774150	Chip, 15pF, CH
CF27	24781270	Chip, 27pF, SL
CF28	24814103	Chip, 0.01μF, +80%, −20%
CF36	24815561	Chip, 560pF, ±10%
CF37	24814103	Chip, 0.01μF, +80%, −20%
CF38	24814103	Chip, 0.01μF, +80%, −20%
CG01	24781470	Chip, 47pF, SL
CG02	24781470	Chip, 47pF, SL
CG14	24814103	Chip, 0.01μF, +80%, −20%
CG15(U903)	24538393	PF, 0.039μF
CG15(UD01)	24814103	Chip, 0.01μF, +80%, −20%
CG16(UD01)	24814103	Chip, 0.01μF, +80%, −20%
CG16(U903)	24538103	PF, 0.01μF
CG17(UD01)	24203220	EL, 22μF, ±20%, 16V
CG17(U903)	24538393	PF, 0.039μF
CG18(UD01)	24774150	Chip, 15pF, CH
CG18(U903)	24538393	PF, 0.039μF
CG19	24794100	EL, 10μF, ±20%, 16V
CG20(U903)	24794100	EL, 10μF, ±20%, 16V
CG20(UD01)	24778620	Chip, 62pF, RH
CG21(UD01)	24815562	Chip, 5600pF, ±10%
CG21(U903)	24797010	EL, 1μF, ±20%, 50V
CG22(U903)	24797010	EL, 1μF, ±20%, 50V
CG22(UD01)	24783220	Chip, 22pF, UJ
CG23	24794100	EL, 10μF, ±20%, 16V
CG24	24797100	EL, 10μF, ±20%, 50V
CG25	24203100	EL, 10μF, ±20%, 16V
CG26	24794100	EL, 10μF, ±20%, 16V
CG27	24232103	CD, 0.01μF, +80%, −20%
CG28	24794101	EL, 100μF, ±20%, 16V
CG29	24794471	EL, 470μF, ±20%, 16V
CG30	24232103	CD, 0.01μF, +80%, −20%
CG31	24203100	EL, 10μF, ±20%, 16V
CG32	24203100	EL, 10μF, ±20%, 16V
CG33	24203100	EL, 10μF, ±20%, 16V
CG34	24590562	PF, 5600pF
CG35	24794100	EL, 10μF, ±20%, 16V

Location No.	Part No.	Description
CG36	24206339	EL, 3.3μF, 50V
CG37	24206339	EL, 3.3μF, 50V
CG38	24797100	EL, 10μF, ±20%, 50V
CG39	24203100	EL, 10μF, ±20%, 16V
CG40	24203100	EL, 10μF, ±20%, 16V
CG41	24436470	CD, 47pF
CG42	24206339	EL, 3.3μF, 50V
CG43	24206339	EL, 3.3μF, 50V
CG44	24436470	CD, 47pF
CG45	24436470	CD, 47pF
CG46	24203100	EL, 10μF, ±20%, 16V
CG47	24203100	EL, 10μF, ±20%, 16V
CM05	24232103	CD, 0.01μF, +80%, −20%
CM07	24232103	CD, 0.01μF, +80%, −20%
CM08	24232103	CD, 0.01μF, +80%, −20%
CN10	24474101	CD, 100pF, ±10%
CN11	24232103	CD, 0.01μF, +80%, −20%
CN12	24436270	CD, 27pF
CN13	24473100	CD, 10pF
CN15	24473150	CD, 15pF
CN16	24436102	CD, 1000pF
CN96	24797229	EL, 2.2μF, ±20%, 50V
CP01	24781330	Chip, 33pF, SL
CP02	24590332	PF, 3300pF
CP03	24590332	PF, 3300pF
CP04	24781330	Chip, 33pF, SL
CP05	24203100	EL, 10μF, ±20%, 16V
CP06	24203100	EL, 10μF, ±20%, 16V
CP07	24203100	EL, 10μF, ±20%, 16V
CP08	24203100	EL, 10μF, ±20%, 16V
CP09	24203100	EL, 10μF, ±20%, 16V
CP10	24203100	EL, 10μF, ±20%, 16V
CP11	24203100	EL, 10μF, ±20%, 16V
CP12	24203100	EL, 10μF, ±20%, 16V
CP13	24085988	EL, 1μF, ±20%, 50V, Non-Polar
CP14	24085988	EL, 1μF, ±20%, 50V, Non-Polar
CP15	24763101	EL, 100μF, ±20%, 16V
CP16	24203100	EL, 10μF, ±20%, 16V
CP17	24538104	PF, 0.1μF
CP20	24781221	Chip, 220pF, SL
CP21	24590682	PF, 6800pF
CP22	24781391	Chip, 390pF
CP23	24781101	Chip, 100pF, SL
CP24	24206010	EL, 1μF, 50V
CP25	24590272	PF, 2700pF
CP26	24781330	Chip, 33pF, SL
CP27	24590682	PF, 6800pF
CP28	24781391	Chip, 390pF
CP29	24590272	PF, 2700pF
CP30	24203100	EL, 10μF, ±20%, 16V
CP31	24781330	Chip, 33pF, SL
CP32	24781101	Chip, 100pF, SL
CP33	24206010	EL, 1μF, 50V
CP34	24590272	PF, 2700pF
CP35	24590682	PF, 6800pF
CP36	24781391	Chip, 390pF
CP37	24781680	Chip, 68pF, SL
CP38	24203100	EL, 10μF, ±20%, 16V
CP39	24203100	EL, 10μF, ±20%, 16V
CP40	24203100	EL, 10μF, ±20%, 16V
CP41	24203100	EL, 10μF, ±20%, 16V
CP42	24203100	EL, 10μF, ±20%, 16V

Location No.	Part No.	Description
CP43	24203100	EL, 10μF, ±20%, 16V
CP44	24590154	PF, 0.15μF
CP45	24203100	EL, 10μF, ±20%, 16V
CP46	24781680	Chip, 68pF, SL
CP47	24203100	EL, 10μF, ±20%, 16V
CP48	24781101	Chip, 100pF, SL
CP49	24203100	EL, 10μF, ±20%, 16V
CP50	24203100	EL, 10μF, ±20%, 16V
CP51	24781680	Chip, 68pF, SL
CP52	24203100	EL, 10μF, ±20%, 16V
CP53	24763471	EL, 470μF, ±20%, 16V
CP54	24763471	EL, 470μF, ±20%, 16V
CP55	24814103	Chip, 0.01μF, +80%, −20%
CP56	24203100	EL, 10μF, ±20%, 16V
CP57	24203100	EL, 10μF, ±20%, 16V
CP58	24203100	EL, 10μF, ±20%, 16V
CP59	24206339	EL, 3.3μF, 50V
CP60	24203100	EL, 10μF, ±20%, 16V
CP61	24206010	EL, 1μF, 50V
CP62	24206010	EL, 1μF, 50V
CP63	24203100	EL, 10μF, ±20%, 16V
CP64	24203100	EL, 10μF, ±20%, 16V
CP65	24203100	EL, 10μF, ±20%, 16V
CP66	24814103	Chip, 0.01μF, +80%, −20%
CP69	24205479	EL, 4.7μF, ±20%, 35V
CP70(US01)	24092293	Chip, 0.1μF, +80%, −20%, 25V
CP70(U902)	24794100	EL, 10μF, ±20%, 16V
CP71	24538104	PF, 0.1μF
CP72	24763221	EL, 220μF, ±20%, 16V
CP73	24763221	EL, 220μF, ±20%, 16V
CP74	24538104	PF, 0.1μF
CP75	24203220	EL, 22μF, ±20%, 16V
CP76	24203220	EL, 22μF, ±20%, 16V
CP77	24814103	Chip, 0.01μF, +80%, −20%
CP78	24763101	EL, 100μF, ±20%, 16V
CP80	24797478	EL, 0.47μF, ±20%, 50V
CP81	24781221	Chip, 220pF, SL
CP85	24202221	EL, 220μF, ±20%, 10V
CP86	24203100	EL, 10μF, ±20%, 16V
CP90(US01)	24815682	Chip, 6800pF, ±10%
CP90(U902)	24590563	PF, 0.056μF
CP91(U902)	24590102	PF, 1000pF
CP91(US01)	24815682	Chip, 6800pF, ±10%
CP92	24794101	EL, 100μF, ±20%, 16V
CP93	24797010	EL, 1μF, ±20%, 50V
CP94	24794101	EL, 100μF, ±20%, 16V
CP95	24797229	EL, 2.2μF, ±20%, 50V
CS01(U902)	24797010	EL, 1μF, ±20%, 50V
CS01(U903)	24203100	EL, 10μF, ±20%, 16V
CS02(U902)	24794470	EL, 47μF, ±20%, 16V
CS02(U903)	24538274	PF, 0.27μF
CS03(U902)	24797010	EL, 1μF, ±20%, 50V
CS03(U903)	24203100	EL, 10μF, ±20%, 16V
CS04	24794470	EL, 47μF, ±20%, 16V
CS05(U903)	24590104	PF, 0.1μF
CS05(U902)	24794470	EL, 47μF, ±20%, 16V
CS06(U903)	24232103	CD, 0.01μF, +80%, −20%
CS06(U902)	24590104	PF, 0.1μF
CS07	24795102	EL, 1000μF, ±20%, 25V
CS08(U903)	24206010	EL, 1μF, 50V
CS08(U902)	24796101	EL, 100μF, ±20%, 35V
CS09(U903)	24202221	EL, 220μF, ±20%, 10V
CS09(U902)	24795102	EL, 1000μF, ±20%, 25V
CS10	24797478	EL, 0.47μF, ±20%, 50V

Location No.	Part No.	Description
CS11	24590123	PF, 0.012μF
CS16	24590104	PF, 0.1μF
CS39	24203100	EL, 10μF, ±20%, 16V
CS50	24590103	PF, 0.01μF
CT01	24538104	PF, 0.1μF
CT03	24538334	PF, 0.33μF
CT04	24538334	PF, 0.33μF
CT05	24232103	CD, 0.01μF, +80%, −20%
CT06	24794101	EL, 100μF, ±20%, 16V
CT07	24232103	CD, 0.01μF, +80%, −20%
CT09	24797220	EL, 22μF, ±20%, 50V
CT11	24590104	PF, 0.1μF
CT12	24797100	EL, 10μF, ±20%, 50V
CT13	24473200	CD, 20pF
CT14	24474101	CD, 100pF, ±10%
CV01	24590104	PF, 0.1μF
CV02	24203100	EL, 10μF, ±20%, 16V
CV03	24203100	EL, 10μF, ±20%, 16V
CV04	24203100	EL, 10μF, ±20%, 16V
CV05	24232103	CD, 0.01μF, +80%, −20%
CV06	24203100	EL, 10μF, ±20%, 16V
CV07	24797100	EL, 10μF, ±20%, 50V
CV08	24203100	EL, 10μF, ±20%, 16V
CV09	24232103	CD, 0.01μF, +80%, −20%
CV10	24203100	EL, 10μF, ±20%, 16V
CV11	24203100	EL, 10μF, ±20%, 16V
CV12	24203100	EL, 10μF, ±20%, 16V
CV16(U902)	24212271	CD, 270pF, ±10%
CV16(U903)	24212271	CD, 270pF, ±10%
CV17(U902)	24212271	CD, 270pF, ±10%
CV17(U903)	24212271	CD, 270pF, ±10%
CV20	24212271	CD, 270pF, ±10%
CV21	24212271	CD, 270pF, ±10%
CV23	24202221	EL, 220μF, ±20%, 10V
CV24	24797100	EL, 10μF, ±20%, 50V
CV26	24202221	EL, 220μF, ±20%, 10V
CV27	24797339	EL, 3.3μF, ±20%, 50V
CV28	24590104	PF, 0.1μF
CV29	24590104	PF, 0.1μF
CV30	24797100	EL, 10μF, ±20%, 50V
CV36	24797100	EL, 10μF, ±20%, 50V
CV37	24232103	CD, 0.01μF, +80%, −20%
CV47	24203101	EL, 100μF, ±20%, 16V
CV70	24794101	EL, 100μF, ±20%, 16V
CV71	24232103	CD, 0.01μF, +80%, −20%
CV75	24202221	EL, 220μF, ±20%, 10V
CV76	24202221	EL, 220μF, ±20%, 10V
CV79	24203100	EL, 10μF, ±20%, 16V (2939DB)
CV79	24203470	EL, 47μF, ±20%, 16V (3339DB)
CV80	24203100	EL, 10μF, ±20%, 16V (2939DB)
CV80	24203470	EL, 47μF, ±20%, 16V (3339DB)
CV87	24203100	EL, 10μF, ±20%, 16V
CV88	24203100	EL, 10μF, ±20%, 16V
CV89	24212271	CD, 270pF, ±10%
CV91	24212271	CD, 270pF, ±10%
CV92	24202221	EL, 220μF, ±20%, 10V
CV93	24202221	EL, 220μF, ±20%, 10V
CV96	24206010	EL, 1μF, 50V
CV97	24206010	EL, 1μF, 50V
CV98	24590562	PF, 5600pF
CV99	24590562	PF, 5600pF
CW30	24203101	EL, 100μF, ±20%, 16V
CW40	24206010	EL, 1μF, 50V
CW41	24206010	EL, 1μF, 50V

Location No.	Part No.	Description
CW50	24794221	EL, 220μF, ±20%, 16V
CX02	24538474	PF, 0.47μF
CX03	24538474	PF, 0.47μF
CX04	24538474	PF, 0.47μF
CX30	24590104	PF, 0.1μF
CX51	24797010	EL, 1μF, ±20%, 50V
CX52	24797010	EL, 1μF, ±20%, 50V
CX53	24797010	EL, 1μF, ±20%, 50V
CX54	24797010	EL, 1μF, ±20%, 50V
CX55	24797010	EL, 1μF, ±20%, 50V
CX56	24797010	EL, 1μF, ±20%, 50V
CX60	24797010	EL, 1μF, ±20%, 50V
CX61	24797010	EL, 1μF, ±20%, 50V
CX62	24797010	EL, 1μF, ±20%, 50V
CX63	24794221	EL, 220μF, ±20%, 16V
CX64	24590104	PF, 0.1μF
CX65	24232103	CD, 0.01μF, +80%, −20%
RESISTORS		
R101	24872680	Chip, 68 ohm, 1/16W
R102	24000824	Chip Jumper, 2125 type
R105	24872432	Chip, 4300 ohm, 1/16W
R106	24872122	Chip, 1200 ohm, 1/16W
R107	24872121	Chip, 120 ohm, 1/16W
R108	24872121	Chip, 120 ohm, 1/16W
R109	24872562	Chip, 5600 ohm, 1/16W
R110	24872360	Chip, 36 ohm, 1/16W
R111	24552101	OMF, 100 ohm, 1/2W
R112	24872392	Chip, 3900 ohm, 1/16W
R113	24872153	Chip, 15k ohm, 1/16W
R114	24872102	Chip, 1k ohm, 1/16W
R115	24872103	Chip, 10k ohm, 1/16W
R116	24872222	Chip, 2200 ohm, 1/16W
R117	24872222	Chip, 2200 ohm, 1/16W
R126	24872101	Chip, 100 ohm, 1/16W
R127	24872562	Chip, 5600 ohm, 1/16W
R128	24872360	Chip, 36 ohm, 1/16W
R129	24872682	Chip, 6800 ohm, 1/16W
R130	24872122	Chip, 1200 ohm, 1/16W
R131	24066599	VR, 5k ohm, 1/10W
R132	24872472	Chip, 4700 ohm, 1/16W
R133	24872272	Chip, 2700 ohm, 1/16W
R134	24872152	Chip, 1500 ohm, 1/16W
R135	24872242	Chip, 2400 ohm, 1/16W
R136	24872272	Chip, 2700 ohm, 1/16W
R139	24872680	Chip, 68 ohm, 1/16W
R140	24872102	Chip, 1k ohm, 1/16W
R141	24872271	Chip, 270 ohm, 1/16W
R142	24872102	Chip, 1k ohm, 1/16W
R143	24872103	Chip, 10k ohm, 1/16W
R144	24066604	VR, 200k ohm, 1/10W
R145	24872823	Chip, 82k ohm, 1/16W
R146	24872102	Chip, 1k ohm, 1/16W
R147	24872101	Chip, 100 ohm, 1/16W
R148	24872102	Chip, 1k ohm, 1/16W
R153	24872101	Chip, 100 ohm, 1/16W
R154	24872471	Chip, 470 ohm, 1/16W
R155	24000824	Chip Jumper, 2125 type
R156	24000824	Chip Jumper, 2125 type
R157	24872101	Chip, 100 ohm, 1/16W
R158	24000824	Chip Jumper, 2125 type
R159	24552102	OMF, 1k ohm, 1/2W
R171	24872101	Chip, 100 ohm, 1/16W
R173	24872105	Chip, 1M ohm, 1/16W

Location No.	Part No.	Description
R175	24000824	Chip Jumper, 2125 type
R176	24000824	Chip Jumper, 2125 type
R190	24366152	CF, 1500 ohm
R191	24366471	CF, 470 ohm
R192	24366223	CF, 22k ohm
R193	24366392	CF, 3900 ohm
R194	24366564	CF, 560k ohm
R195	24366123	CF, 12k ohm
R196	24366392	CF, 3900 ohm
R197	24366392	CF, 3900 ohm
R198	24366103	CF, 10k ohm
R199	24366473	CF, 47k ohm
R201	24366152	CF, 1500 ohm
R202	24366152	CF, 1500 ohm
R204	24366560	CF, 56 ohm
R206	24366472	CF, 4700 ohm
R207	24366473	CF, 47k ohm
R208	24366471	CF, 470 ohm
R211	24366102	CF, 1k ohm
R219	24366472	CF, 4700 ohm
R221	24366223	CF, 22k ohm
R222	24366223	CF, 22k ohm
R230	24366823	CF, 82k ohm
R235	24366181	CF, 180 ohm
R236	24366202	CF, 2k ohm
R237	24366202	CF, 2k ohm
R238	24366472	CF, 4700 ohm
R240	24366394	CF, 390k ohm
R241	24366564	CF, 560k ohm
R242(U904)	24366822	CF, 8200 ohm
R242(U902)	24366272	CF, 2700 ohm
R243	24366912	CF, 9100 ohm
R246	24366103	CF, 10k ohm
R247	24366562	CF, 5600 ohm
R249	24366562	CF, 5600 ohm
R250	24366103	CF, 10k ohm
R252	24066596	VR, 500 ohm, 1/10W (2939DB)
R252	24066595	VR, 200 ohm, 1/10W (3339DB)
R253	24066596	VR, 500 ohm, 1/10W (2939DB)
R253	24066595	VR, 200 ohm, 1/10W (3339DB)
R266	24366472	CF, 4700 ohm
R301(U904)	24322439	OMF, 4.3 ohm, 1W (2939DB)
R301(U904)	24322399	OMF, 3.9 ohm, 1W (3339DB)
R301(U902)	24366201	CF, 200 ohm
R302	24366244	CF, 240k ohm
R303	24366473	CF, 47k ohm
R304	24366303	CF, 30k ohm (2939DB)
R304	24366393	CF, 39k ohm (3339DB)
R305(U902)	24366161	CF, 160 ohm
R305(U904)	24322159	OMF, 1.5 ohm, 1W
R306	24366473	CF, 47k ohm (2939DB)
R306	24366563	CF, 56k ohm (3339DB)
R307	24366394	CF, 390k ohm
R308	24366102	CF, 1k ohm
R309	24383561	OMF, 560 ohm, 2W
R310	24366272	CF, 2700 ohm
R311	24366271	CF, 270 ohm
R312	24366204	CF, 200k ohm
R313	24366104	CF, 100k ohm
R314	24366105	CF, 1M ohm
R315	24366155	CF, 1.5M ohm
R316	24366154	CF, 150k ohm
R317	24366102	CF, 1k ohm
R318	24366471	CF, 470 ohm

Location No.	Part No.	Description
R319	24366471	CF, 470 ohm
R320	24366101	CF, 100 ohm
R321	24366102	CF, 1k ohm
⚠R327	24000577	FR, 5.6 ohm, 1W (2939DB)
⚠R327	24000189	FR, 4.7 ohm, 1W (3339DB)
R329	24366223	CF, 22k ohm
R330	24321109	OMF, 1.0 ohm, 1/2W (3339DB)
R334	24383751	OMF, 750 ohm, 2W
R336	24383621	OMF, 620 ohm, 2W (3339DB)
R340	24553561	OMF, 560 ohm, 1W (2939DB)
R340	24553751	OMF, 750 ohm, 1W (3339DB)
R341(U902)	24366223	CF, 22k ohm
R341(U904)	24381222	OMF, 2200 ohm, 1/2W
R342	24366562	CF, 5600 ohm
R402	24366273	CF, 27k ohm
R403	24366302	CF, 3k ohm
R404	24552432	OMF, 4300 ohm, 1/2W
R405	24366431	CF, 430 ohm
R408	24366682	CF, 6800 ohm
R409	24366434	CF, 430k ohm
R410	24552472	OMF, 4700 ohm, 1/2W
R411	24366561	CF, 560 ohm
R413	24366151	CF, 150 ohm
R415	24553242	OMF, 2400 ohm, 1W
R416	24510682	Cement, 6800 ohm, 5W
R421	24366104	CF, 100k ohm
R430	24366272	CF, 2700 ohm
R431	24366102	CF, 1k ohm
R432	24366433	CF, 43k ohm
R433	24366303	CF, 30k ohm
R434	24366123	CF, 12k ohm
R440	24552103	OMF, 10k ohm, 1/2W
R441	24376123	CF, 12k ohm, 1/2W
R442	24382102	OMF, 1k ohm, 1W
R444	24322398	OMF, 0.39 ohm, 1W
R446	24533151	FR, 150 ohm, 2W
⚠R448	24323338	OMF, 0.33 ohm, 2W
R470	24322478	OMF, 0.47 ohm, 1W
R471	24366101	CF, 100 ohm
R472	24376393	CF, 39k ohm, 1/2W
R474	24366331	CF, 330 ohm
R475	24366102	CF, 1k ohm
R476	24366221	CF, 220 ohm
R477	24366153	CF, 15k ohm
R502	24366334	CF, 330k ohm
R504	24366471	CF, 470 ohm
R505	24366512	CF, 5100 ohm
R506	24366101	CF, 100 ohm
R507	24366822	CF, 8200 ohm
R508	24366561	CF, 560 ohm
R509	24366122	CF, 1200 ohm
R511	24366202	CF, 2k ohm
R512	24366182	CF, 1800 ohm
R513	24366122	CF, 1200 ohm
R515	24366221	CF, 220 ohm
R516	24366221	CF, 220 ohm
R517	24366221	CF, 220 ohm
R518	24366185	CF, 1.8M ohm
R519	24366475	CF, 4.7M ohm
R520	24366332	CF, 3300 ohm
R521	24366102	CF, 1k ohm
R522	24366185	CF, 1.8M ohm
R529	24366101	CF, 100 ohm
R530	24366101	CF, 100 ohm

Location No.	Part No.	Description
R531(U903)	24366271	CF, 270 ohm (2939DB)
R531(U903)	24366101	CF, 100 ohm (3339DB)
R531(U902)	24366432	CF, 4300 ohm
R532	24366121	CF, 120 ohm (2939DB)
R532	24366101	CF, 100 ohm (3339DB)
R533	24366362	CF, 3600 ohm (2939DB)
R533	24366152	CF, 1500 ohm (3339DB)
R534	24366101	CF, 100 ohm
R535	24366181	CF, 180 ohm (2939DB)
R535	24366111	CF, 110 ohm (3339DB)
R537	24366362	CF, 3600 ohm (2939DB)
R537	24366152	CF, 1500 ohm (3339DB)
R538	24366201	CF, 200 ohm (2939DB)
R538	24366131	CF, 130 ohm (3339DB)
R539	24366362	CF, 3600 ohm (2939DB)
R539	24366152	CF, 1500 ohm (3339DB)
R541	24366821	CF, 820 ohm
R542	24366241	CF, 240 ohm
R543	24366103	CF, 10k ohm
R545	24366102	CF, 1k ohm
R547	24366102	CF, 1k ohm
R548	24366102	CF, 1k ohm
R549	24366102	CF, 1k ohm
R551	24066955	VR, 1k ohm, 1/10W
R557	24066600	VR, 10k ohm, 1/10W
R558	24066600	VR, 10k ohm, 1/10W
R559	24066600	VR, 10k ohm, 1/10W
R565	24366560	CF, 56 ohm (2939DB)
R565	24366330	CF, 33 ohm (3339DB)
R566	24366560	CF, 56 ohm (2939DB)
R566	24366330	CF, 33 ohm (3339DB)
R567	24366560	CF, 56 ohm (2939DB)
R567	24366330	CF, 33 ohm (3339DB)
R568	24366102	CF, 1k ohm
R569	24366101	CF, 100 ohm
R570	24366362	CF, 3600 ohm (2939DB)
R570	24366112	CF, 1100 ohm (3339DB)
R571	24366362	CF, 3600 ohm (2939DB)
R571	24366112	CF, 1100 ohm (3339DB)
R572	24366362	CF, 3600 ohm (2939DB)
R572	24366112	CF, 1100 ohm (3339DB)
R591	24383153	OMF, 15k ohm, 2W
R592	24383153	OMF, 15k ohm, 2W
R593	24383153	OMF, 15k ohm, 2W
R594	24383153	OMF, 15k ohm, 2W (3339DB)
R595	24383153	OMF, 15k ohm, 2W (3339DB)
R596	24383153	OMF, 15k ohm, 2W (3339DB)
R601	24553100	OMF, 10 ohm, 1W
R602	24872153	Chip, 15k ohm, 1/16W
R603	24872562	Chip, 5600 ohm, 1/16W
R604	24872331	Chip, 330 ohm, 1/16W
R605	24872102	Chip, 1k ohm, 1/16W
R606	24872101	Chip, 100 ohm, 1/16W
R607	24872361	Chip, 360 ohm, 1/16W
R608	24872102	Chip, 1k ohm, 1/16W
R609	24872101	Chip, 100 ohm, 1/16W
R665	24552181	OMF, 180 ohm, 1/2W
R666	24552181	OMF, 180 ohm, 1/2W
R670	24366153	CF, 15k ohm
R671	24366512	CF, 5100 ohm
R672	24366203	CF, 20k ohm
R673	24366182	CF, 1800 ohm
R674	24366105	CF, 1M ohm
R675	24366182	CF, 1800 ohm

Location No.	Part No.	Description
R681	24366153	CF, 15k ohm
R682	24366229	CF, 2.2 ohm
R683	24366229	CF, 2.2 ohm
R684	24366229	CF, 2.2 ohm
R701	24366153	CF, 15k ohm
R703	24366511	CF, 510 ohm
R704	24366102	CF, 1k ohm
R705	24366222	CF, 2200 ohm
R706	24366102	CF, 1k ohm
R708	24366102	CF, 1k ohm
R713	24366122	CF, 1200 ohm
R714	24552680	OMF, 68 ohm, 1/2W
R715	24366203	CF, 20k ohm
R716	24366273	CF, 27k ohm
R717	24366333	CF, 33k ohm
R718	24366222	CF, 2200 ohm
R721(U904)	24366102	CF, 1k ohm
R721(U902)	24366101	CF, 100 ohm
R722	24552471	OMF, 470 ohm, 1/2W
R723	24366471	CF, 470 ohm
R724	24366470	CF, 47 ohm
R725	24366182	CF, 1800 ohm
R726	24366102	CF, 1k ohm
R730	24552100	OMF, 10 ohm, 1/2W
R731	24552301	OMF, 300 ohm, 1/2W
R732	24366820	CF, 82 ohm
R733	24366683	CF, 68k ohm
R734	24366820	CF, 82 ohm
R735	24366683	CF, 68k ohm
R736	24552430	OMF, 43 ohm, 1/2W
R737	24366152	CF, 1500 ohm
R738	24366123	CF, 12k ohm
R739	24366152	CF, 1500 ohm
R740	24552430	OMF, 43 ohm, 1/2W
R741	24321279	OMF, 2.7 ohm, 1/2W
R742	24321279	OMF, 2.7 ohm, 1/2W
R743	24554221	OMF, 220 ohm, 2W
R744	24366122	CF, 1200 ohm
R745	24366122	CF, 1200 ohm
R746	24366101	CF, 100 ohm
R757	24366332	CF, 3300 ohm
R758	24366101	CF, 100 ohm
R759	24366101	CF, 100 ohm
R778	24366471	CF, 470 ohm
R779	24366102	CF, 1k ohm
R780	24366562	CF, 5600 ohm
R781	24366102	CF, 1k ohm
⚠R801	24004914	Metal Glazed Resistor, 5.6M ohm, 1/2W
R810	24568271	Cement, 270 ohm, 7W
R821	24321229	OMF, 2.2 ohm, 1/2W
R822	24510180	Cement, 18 ohm, 5W
R823	24376102	CF, 1k ohm, 1/2W
R825	24366561	CF, 560 ohm
R826	24383560	OMF, 56 ohm, 2W
R827	24366561	CF, 560 ohm
R828	24377394	CF, 0.39 ohm, 1W
R829	24384563	OMF, 56k ohm, 3W
R830	24366682	CF, 6800 ohm
R832	24552122	OMF, 1200 ohm, 1/2W
R833	24366510	CF, 51 ohm
R835	24552391	OMF, 390 ohm, 1/2W
R836	24552221	OMF, 220 ohm, 1/2W
R837	24366223	CF, 22k ohm

Location No.	Part No.	Description
R838	24322568	OMF, 0.56 ohm, 1W
R839	24322568	OMF, 0.56 ohm, 1W
R840	24366102	CF, 1k ohm
R841	24546279	FR, 2.7 ohm, 1/2W
R842	24366242	CF, 2400 ohm
R843	24383682	OMF, 6800 ohm, 2W
R844	24366182	CF, 1800 ohm
R845	24321229	OMF, 2.2 ohm, 1/2W
R848	24321228	OMF, 0.22 ohm, 1/2W
R849	24552102	OMF, 1k ohm, 1/2W
R850	24366102	CF, 1k ohm
R853	24366222	CF, 2200 ohm
R854	24367332	CF, 3300 ohm, ±2%
R855	24366102	CF, 1k ohm
R856	24366561	CF, 560 ohm
R857	24366271	CF, 270 ohm
R858	24366681	CF, 680 ohm
R859	24367822	CF, 8200 ohm, ±2%
R862	24376122	CF, 1200 ohm, 1/2W
R863	24366102	CF, 1k ohm
R864	24546279	FR, 2.7 ohm, 1/2W
R867	24366102	CF, 1k ohm
R868	24377274	CF, 270k ohm, 1W
R869	24367133	CF, 13k ohm, ±2%
R870	24383133	OMF, 13k ohm, 2W
R872	24007864	Cement, 3 ohm, 15W
R873	24366333	CF, 33k ohm
R874	24366181	CF, 180 ohm
R875	24366111	CF, 110 ohm
R876	24366101	CF, 100 ohm
R877	24366222	CF, 2200 ohm
R878	24531680	FR, 68 ohm, 1/2W
R879	24366472	CF, 4700 ohm
R880	24366272	CF, 2700 ohm
R881	24366333	CF, 33k ohm
R883	24366332	CF, 3300 ohm
R884	24321919	OMF, 9.1 ohm, 1/2W
⚠R890	24000875	PTC Thermistor, 18 ohm, ±20%, 290V
R892	24366102	CF, 1k ohm
R893	24366103	CF, 10k ohm
R895	24376681	CF, 680 ohm, 1/2W
R896	24366332	CF, 3300 ohm
R897	24532100	FR, 10 ohm, 1W
R898	24569270	Cement, 27 ohm, 10W
R901	24946272	CC, 2700 ohm, ±10%, 1/2W
R902	24946272	CC, 2700 ohm, ±10%, 1/2W
R903	24946272	CC, 2700 ohm, ±10%, 1/2W
R920	24000568	FR, 4.7 ohm, 1W
RA01	24366183	CF, 18k ohm
RA02	24366562	CF, 5600 ohm
RA03	24366103	CF, 10k ohm
RA04	24366223	CF, 22k ohm
RA07	24366222	CF, 2200 ohm
RA10	24366223	CF, 22k ohm
RA11	24366222	CF, 2200 ohm
RA15	24366103	CF, 10k ohm
RA16	24366103	CF, 10k ohm
RA17	24366102	CF, 1k ohm
RA18	24366473	CF, 47k ohm (2939DB)
RA18	24366102	CF, 1k ohm (3339DB)
RA20	24366101	CF, 100 ohm (2939DB)
RA20	24366473	CF, 47k ohm (3339DB)
RA21	24366561	CF, 560 ohm

Location No.	Part No.	Description
RA22	24366561	CF, 560 ohm
RA23	24366223	CF, 22k ohm
RA29	24366103	CF, 10k ohm
RA32	24366473	CF, 47k ohm
RA33	24366473	CF, 47k ohm
RA37	24366473	CF, 47k ohm
RA38	24366104	CF, 100k ohm
RA40	24366102	CF, 1k ohm (2939DB)
RA40	24366331	CF, 330 ohm (3339DB)
RA41	24366102	CF, 1k ohm (2939DB)
RA41	24366331	CF, 330 ohm (3339DB)
RA45	24366183	CF, 18k ohm
RA46	24366123	CF, 12k ohm
RA47	24366152	CF, 1500 ohm
RA48	24366473	CF, 47k ohm
RA53	24366102	CF, 1k ohm
RA56(U903)	24366123	CF, 12k ohm
RA56(U902)	24366473	CF, 47k ohm
RA57(U902)	24366332	CF, 3300 ohm
RA57(U903)	24366473	CF, 47k ohm
RA58	24366152	CF, 1500 ohm
RA59(U902)	24366332	CF, 3300 ohm
RA59(U903)	24366473	CF, 47k ohm
RA60	24366332	CF, 3300 ohm
RA61	24366332	CF, 3300 ohm
RA62	24366103	CF, 10k ohm
RA63	24366103	CF, 10k ohm
RA65	24366332	CF, 3300 ohm
RA66	24366102	CF, 1k ohm
RA67	24366153	CF, 15k ohm
RA68	24366102	CF, 1k ohm
RA69	24366103	CF, 10k ohm
RA70	24366561	CF, 560 ohm
RA71	24366564	CF, 560k ohm
RA72	24366563	CF, 56k ohm
RA73	24366123	CF, 12k ohm
RA74	24366472	CF, 4700 ohm
RA75	24366392	CF, 3900 ohm
RA76	24366223	CF, 22k ohm
RA77	24366152	CF, 1500 ohm
RA78	24366103	CF, 10k ohm
RA79	24366153	CF, 15k ohm
RA80	24366333	CF, 33k ohm
RA81	24366101	CF, 100 ohm
RA82	24366101	CF, 100 ohm
RA83	24366103	CF, 10k ohm
RA84	24366103	CF, 10k ohm
RA85	24366103	CF, 10k ohm
RA86	24366103	CF, 10k ohm
RA87	24366103	CF, 10k ohm
RA89	24366471	CF, 470 ohm
RA90	24366333	CF, 33k ohm
RA92	24366561	CF, 560 ohm (2939DB)
RA92	24366152	CF, 1500 ohm (3339DB)
RA93	24366103	CF, 10k ohm
RA94	24366561	CF, 560 ohm
RA95	24366222	CF, 2200 ohm
RA96	24366102	CF, 1k ohm
RA97(U902)	24366272	CF, 2700 ohm
RA97(U903)	24366101	CF, 100 ohm
RA98	24366101	CF, 100 ohm
RB01	24366472	CF, 4700 ohm
RB02	24366332	CF, 3300 ohm
RB03	24366223	CF, 22k ohm

Location No.	Part No.	Description
RB04	24366103	CF, 10k ohm
RB05(U902)	24366332	CF, 3300 ohm
RB05(U904)	24366103	CF, 10k ohm
RB06	24366473	CF, 47k ohm
RB11	24366331	CF, 330 ohm
RB12	24366331	CF, 330 ohm
RB14	24366102	CF, 1k ohm
RB15	24366472	CF, 4700 ohm
RB17	24366102	CF, 1k ohm
RB18	24366102	CF, 1k ohm
RB19	24366102	CF, 1k ohm
RB21(U903)	24366103	CF, 10k ohm
RB21(U902)	24366561	CF, 560 ohm
RB22(U903)	24366473	CF, 47k ohm
RB22(U902)	24366561	CF, 560 ohm
RB23(U902)	24366751	CF, 750 ohm
RB23(U903)	24366103	CF, 10k ohm
RB24	24366103	CF, 10k ohm
RB25	24366103	CF, 10k ohm
RB26	24366103	CF, 10k ohm
RB27	24366103	CF, 10k ohm
RB29	24366103	CF, 10k ohm
RB30	24366102	CF, 1k ohm
RD01(U904)	24531150	FR, 15 ohm, 1/2W
RD01(UD01)	24872471	Chip, 470 ohm, 1/16W
RD02	24323229	OMF, 2.2 ohm, 2W
RD03(U904)	24366562	CF, 5600 ohm
RD03(UD01)	24872471	Chip, 470 ohm, 1/16W
RD04	24366102	CF, 1k ohm
RD05	24552332	OMF, 3300 ohm, 1/2W
RD06	24366242	CF, 2400 ohm
RD07	24366273	CF, 27k ohm
RD08	24366114	CF, 110k ohm
RD09	24366153	CF, 15k ohm
RD10	24366153	CF, 15k ohm
RD11	24872223	Chip, 22k ohm, 1/16W
RD12	24872392	Chip, 3900 ohm, 1/16W
RD15	24872101	Chip, 100 ohm, 1/16W
RD16	24872472	Chip, 4700 ohm, 1/16W
RD22	24872222	Chip, 2200 ohm, 1/16W
RD23	24872271	Chip, 270 ohm, 1/16W
RD24	24872242	Chip, 2400 ohm, 1/16W
RD25	24872202	Chip, 2k ohm, 1/16W
RD26	24872202	Chip, 2k ohm, 1/16W
RD28	24872393	Chip, 39k ohm, 1/16W
RD29	24872623	Chip, 62k ohm, 1/16W
RD31	24872332	Chip, 3300 ohm, 1/16W
RD32	24872102	Chip, 1k ohm, 1/16W
RD33	24872101	Chip, 100 ohm, 1/16W
RD34	24872101	Chip, 100 ohm, 1/16W
RD35	24066921	VR, 500k ohm, 1/10W
RD36	24872512	Chip, 5100 ohm, 1/16W
RD37	24872821	Chip, 820 ohm, 1/16W
RD38	24872512	Chip, 5100 ohm, 1/16W
RD39	24872821	Chip, 820 ohm, 1/16W
RD40	24871912	Chip, 9100 ohm, 1/8W
RD41	24872223	Chip, 22k ohm, 1/16W
RD42	24872223	Chip, 22k ohm, 1/16W
RD43	24872393	Chip, 39k ohm, 1/16W
RD44	24872681	Chip, 680 ohm, 1/16W
RD45	24872101	Chip, 100 ohm, 1/16W
RD46	24872224	Chip, 220k ohm, 1/16W
RD47	24872103	Chip, 10k ohm, 1/16W
RD48	24872101	Chip, 100 ohm, 1/16W

Location No.	Part No.	Description
RD49	24872101	Chip, 100 ohm, 1/16W
RD50	24872563	Chip, 56k ohm, 1/16W
RD51	24872103	Chip, 10k ohm, 1/16W
RD52	24872102	Chip, 1k ohm, 1/16W
RD71	24872432	Chip, 4300 ohm, 1/16W
RD72	24872432	Chip, 4300 ohm, 1/16W
RD73	24872432	Chip, 4300 ohm, 1/16W
RD74	24872432	Chip, 4300 ohm, 1/16W
RE51	24366391	CF, 390 ohm
RE54	24366103	CF, 10k ohm
RE56	24366303	CF, 30k ohm
RE60	24366222	CF, 2200 ohm
RE61	24366393	CF, 39k ohm
RE63	24366474	CF, 470k ohm
RE68	24366564	CF, 560k ohm
RE70	24366101	CF, 100 ohm
RE72	24366102	CF, 1k ohm
RE73	24366101	CF, 100 ohm
RE74	24366474	CF, 470k ohm
RE76	24366153	CF, 15k ohm
RE77	24366332	CF, 3300 ohm
RE78	24366153	CF, 15k ohm
RF01	24872101	Chip, 100 ohm, 1/16W
RF02	24872152	Chip, 1500 ohm, 1/16W
RF03	24872103	Chip, 10k ohm, 1/16W
RF05	24872101	Chip, 100 ohm, 1/16W
RF06	24872152	Chip, 1500 ohm, 1/16W
RF07	24872101	Chip, 100 ohm, 1/16W
RF08	24872152	Chip, 1500 ohm, 1/16W
RF09	24872101	Chip, 100 ohm, 1/16W
RF10	24872152	Chip, 1500 ohm, 1/16W
RF11	24872683	Chip, 68k ohm, 1/16W
RF12	24872101	Chip, 100 ohm, 1/16W
RF13	24872101	Chip, 100 ohm, 1/16W
RF14	24872122	Chip, 1200 ohm, 1/16W
RF15	24872103	Chip, 10k ohm, 1/16W
RF16	24872331	Chip, 330 ohm, 1/16W
RF19	24872101	Chip, 100 ohm, 1/16W
RF20	24872331	Chip, 330 ohm, 1/16W
RF24	24872332	Chip, 3300 ohm, 1/16W
RF35	24872472	Chip, 4700 ohm, 1/16W
RG01	24872561	Chip, 560 ohm, 1/16W
RG02	24872563	Chip, 56k ohm, 1/16W
RG03	24872563	Chip, 56k ohm, 1/16W
RG04	24872102	Chip, 1k ohm, 1/16W
RG05	24872102	Chip, 1k ohm, 1/16W
RG25	24366394	CF, 390k ohm
RG26	24553680	OMF, 68 ohm, 1W
RG29	24366101	CF, 100 ohm
RG30	24366101	CF, 100 ohm
RG31	24366472	CF, 4700 ohm (2939DB)
RG31	24366101	CF, 100 ohm (3339DB)
RG32	24366103	CF, 10k ohm
RG33	24366472	CF, 4700 ohm
RG34	24366472	CF, 4700 ohm
RG35	24366101	CF, 100 ohm
RG36	24366101	CF, 100 ohm
RG37	24366101	CF, 100 ohm
RG38	24366103	CF, 10k ohm
RG39	24366472	CF, 4700 ohm
RG40	24366473	CF, 47k ohm
RG41	24366104	CF, 100k ohm
RG42	24366104	CF, 100k ohm
RG43(U903)	24366123	CF, 12k ohm

Location No.	Part No.	Description
RG43(UD01)	24872102	Chip, 1k ohm, 1/16W
RG44(U903)	24366123	CF, 12k ohm
RG44(UD01)	24872153	Chip, 15k ohm, 1/16W
RG45	24366473	CF, 47k ohm
RG46	24366473	CF, 47k ohm
RG47	24366103	CF, 10k ohm
RG48	24366103	CF, 10k ohm
RG49	24366472	CF, 4700 ohm
RG50	24366472	CF, 4700 ohm
RG51	24366103	CF, 10k ohm
RG95	24872182	Chip, 1800 ohm, 1/16W
RG96	24872332	Chip, 3300 ohm, 1/16W
RJ01(U101)	24000824	Chip Jumper, 2125 type
RJ01(UD01)	24000824	Chip Jumper, 2125 type
RJ02	24000824	Chip Jumper, 2125 type
RJ06	24000824	Chip Jumper, 2125 type
RJ08	24000824	Chip Jumper, 2125 type
RJ13	24000824	Chip Jumper, 2125 type
RJ15	24000576	Chip Jumper, 3216 type
RJ16	24000576	Chip Jumper, 3216 type
RJ19	24000824	Chip Jumper, 2125 type
RJ21	24000824	Chip Jumper, 2125 type
RJ24	24000576	Chip Jumper, 3216 type
RJ76	24000824	Chip Jumper, 2125 type
RJ78	24000824	Chip Jumper, 2125 type
RJ79	24000824	Chip Jumper, 2125 type
RJ89	24000824	Chip Jumper, 2125 type
RJ90	24000824	Chip Jumper, 2125 type
RJ93	24000824	Chip Jumper, 2125 type
RJ94	24000824	Chip Jumper, 2125 type
RL01	24872153	Chip, 15k ohm, 1/16W
RL02	24872103	Chip, 10k ohm, 1/16W
RL03	24872103	Chip, 10k ohm, 1/16W
RM07	24366103	CF, 10k ohm
RM18	24366223	CF, 22k ohm
RN02	24366562	CF, 5600 ohm
RN07	24366101	CF, 100 ohm
RN15	24366243	CF, 24k ohm
RN16(U904)	24366103	CF, 10k ohm
RN16(U902)	24366473	CF, 47k ohm
RN17(U902)	24366821	CF, 820 ohm
RN17(U904)	24366103	CF, 10k ohm
RN18	24366473	CF, 47k ohm
RN20	24366473	CF, 47k ohm
RN21	24366473	CF, 47k ohm
RN22	24366473	CF, 47k ohm
RN24	24366332	CF, 3300 ohm
RN32	24366243	CF, 24k ohm
RN33	24366104	CF, 100k ohm
RN34	24366104	CF, 100k ohm
RN86	24366473	CF, 47k ohm
RP01	24872101	Chip, 100 ohm, 1/16W
RP02	24872101	Chip, 100 ohm, 1/16W
RP03	24872101	Chip, 100 ohm, 1/16W
RP04	24872101	Chip, 100 ohm, 1/16W
RP05	24872104	Chip, 100k ohm, 1/16W
RP06	24872272	Chip, 2700 ohm, 1/16W
RP07	24872104	Chip, 100k ohm, 1/16W
RP08	24872272	Chip, 2700 ohm, 1/16W
RP09	24872104	Chip, 100k ohm, 1/16W
RP10	24872104	Chip, 100k ohm, 1/16W
RP11	24872272	Chip, 2700 ohm, 1/16W
RP12	24872562	Chip, 5600 ohm, 1/16W
RP13	24872104	Chip, 100k ohm, 1/16W

Location No.	Part No.	Description
RP14	24366163	CF, 16k ohm
RP15	24000824	Chip Jumper, 2125 type
RP16	24872104	Chip, 100k ohm, 1/16W
RP17	24000824	Chip Jumper, 2125 type
RP19	24872822	Chip, 8200 ohm, 1/16W
RP20	24872105	Chip, 1M ohm, 1/16W
RP21	24872822	Chip, 8200 ohm, 1/16W
RP22	24872822	Chip, 8200 ohm, 1/16W
RP23	24872101	Chip, 100 ohm, 1/16W
RP24	24872562	Chip, 5600 ohm, 1/16W
RP25	24872272	Chip, 2700 ohm, 1/16W
RP26	24872822	Chip, 8200 ohm, 1/16W
RP27	24872822	Chip, 8200 ohm, 1/16W
RP28	24872103	Chip, 10k ohm, 1/16W
RP29	24872103	Chip, 10k ohm, 1/16W
RP30	24872822	Chip, 8200 ohm, 1/16W
RP31	24872101	Chip, 100 ohm, 1/16W
RP32	24872473	Chip, 47k ohm, 1/16W
RP33	24872105	Chip, 1M ohm, 1/16W
RP34	24872822	Chip, 8200 ohm, 1/16W
RP35	24872822	Chip, 8200 ohm, 1/16W
RP36	24872822	Chip, 8200 ohm, 1/16W
RP37	24000593	Chip, 10k ohm, ±1%, 1/16W
RP38	24000593	Chip, 10k ohm, ±1%, 1/16W
RP39	24872562	Chip, 5600 ohm, 1/16W
RP42	24000593	Chip, 10k ohm, ±1%, 1/16W
RP43	24000593	Chip, 10k ohm, ±1%, 1/16W
RP44	24000593	Chip, 10k ohm, ±1%, 1/16W
RP45	24872103	Chip, 10k ohm, 1/16W
RP46	24872183	Chip, 18k ohm, 1/16W
RP47	24000593	Chip, 10k ohm, ±1%, 1/16W
RP48	24872271	Chip, 270 ohm, 1/16W
RP49	24872103	Chip, 10k ohm, 1/16W
RP50	24872203	Chip, 20k ohm, 1/16W
RP51	24872472	Chip, 4700 ohm, 1/16W
RP52	24872104	Chip, 100k ohm, 1/16W
RP53	24872472	Chip, 4700 ohm, 1/16W
RP54	24872103	Chip, 10k ohm, 1/16W
RP55	24872153	Chip, 15k ohm, 1/16W
RP56	24872392	Chip, 3900 ohm, 1/16W
RP57	24872153	Chip, 15k ohm, 1/16W
RP58	24872562	Chip, 5600 ohm, 1/16W
RP60	24872103	Chip, 10k ohm, 1/16W
RP61	24872105	Chip, 1M ohm, 1/16W
RP62	24872101	Chip, 100 ohm, 1/16W
RP63	24872101	Chip, 100 ohm, 1/16W
RP64	24872101	Chip, 100 ohm, 1/16W
RP65	24553680	OMF, 68 ohm, 1W
RP66	24871222	Chip, 2200 ohm, 1/8W
RP67	24871182	Chip, 1800 ohm, 1/8W
RP68	24872394	Chip, 390k ohm, 1/16W
RP69	24871105	Chip, 1M ohm, 1/8W
RP70(U902)	24366103	CF, 10k ohm
RP70(US01)	24872103	Chip, 10k ohm, 1/16W
RP71(U902)	24366102	CF, 1k ohm
RP71(US01)	24872102	Chip, 1k ohm, 1/16W
RP72(US01)	24872104	Chip, 100k ohm, 1/16W
RP72(U902)	24366152	CF, 1500 ohm
RP73(U902)	24366822	CF, 8200 ohm
RP73(US01)	24872102	Chip, 1k ohm, 1/16W
RP74	24872102	Chip, 1k ohm, 1/16W
RP75	24872104	Chip, 100k ohm, 1/16W
RP76	24872104	Chip, 100k ohm, 1/16W
RP77	24872153	Chip, 15k ohm, 1/16W

Location No.	Part No.	Description
RP78	24872473	Chip, 47k ohm, 1/16W
RP79	24872101	Chip, 100 ohm, 1/16W
RP80(US01)	24872153	Chip, 15k ohm, 1/16W
RP80(U903)	24366473	CF, 47k ohm
RP81(US01)	24000824	Chip Jumper, 2125 type
RP81(U902)	24366102	CF, 1k ohm
RP82(U903)	24366103	CF, 10k ohm
RP82(US01)	24872563	Chip, 56k ohm, 1/16W
RP83	24872103	Chip, 10k ohm, 1/16W
RP84(US01)	24872103	Chip, 10k ohm, 1/16W
RP84(U903)	24366104	CF, 100k ohm
RP85	24366221	CF, 220 ohm
RP86	24366102	CF, 1k ohm
RP87(U903)	24323339	OMF, 3.3 ohm, 2W
RP87(US01)	24872101	Chip, 100 ohm, 1/16W
RP88(US01)	24872104	Chip, 100k ohm, 1/16W
RP88(U903)	24324229	OMF, 2.2 ohm, 3W
RP89	24872103	Chip, 10k ohm, 1/16W
RP90	24872332	Chip, 3300 ohm, 1/16W
RP91	24366102	CF, 1k ohm
RP92	24366153	CF, 15k ohm
RP93(U903)	24366473	CF, 47k ohm
RP93(US01)	24872682	Chip, 6800 ohm, 1/16W
RP94	24366473	CF, 47k ohm
RP95	24366102	CF, 1k ohm
RP96	24366103	CF, 10k ohm
RP97	24366103	CF, 10k ohm
RP99	24872103	Chip, 10k ohm, 1/16W
RS01(U902)	24366229	CF, 2.2 ohm
RS01(U903)	24366393	CF, 39k ohm
RS02	24366229	CF, 2.2 ohm
RS03(U902)	24366512	CF, 5100 ohm
RS03(U903)	24366102	CF, 1k ohm
RS04(U903)	24366163	CF, 16k ohm
RS04(U902)	24366102	CF, 1k ohm
RS05	24366473	CF, 47k ohm
RS07	24366104	CF, 100k ohm
RS08	24366102	CF, 1k ohm
RS12	24366912	CF, 9100 ohm
RS13	24366103	CF, 10k ohm
RS15	24366223	CF, 22k ohm
RS20	24366103	CF, 10k ohm
RS21	24366103	CF, 10k ohm
RS23	24366473	CF, 47k ohm
RS47	24366103	CF, 10k ohm
RS48	24366104	CF, 100k ohm
RT06	24366273	CF, 27k ohm
RT07	24366273	CF, 27k ohm
RT08	24366103	CF, 10k ohm
RT09	24366103	CF, 10k ohm
RT12	24366913	CF, 91k ohm
RT14	24366203	CF, 20k ohm
RT17	24366203	CF, 20k ohm
RT19	24366162	CF, 1600 ohm
RT20	24366302	CF, 3k ohm
RT21	24366562	CF, 5600 ohm
RT22	24366332	CF, 3300 ohm
RT23	24366332	CF, 3300 ohm
RT24	24366752	CF, 7500 ohm
RT28	24366123	CF, 12k ohm
RT40	24366102	CF, 1k ohm
RT41	24366472	CF, 4700 ohm
RT42	24366301	CF, 300 ohm
RT43	24366132	CF, 1300 ohm

Location No.	Part No.	Description
RT44	24366132	CF, 1300 ohm
RT45	24366682	CF, 6800 ohm
RT46	24366332	CF, 3300 ohm
RT47	24366751	CF, 750 ohm
RT51	24366331	CF, 330 ohm
RT52	24366682	CF, 6800 ohm
RT53	24366682	CF, 6800 ohm
RV02	24366101	CF, 100 ohm
RV03	24366101	CF, 100 ohm
RV04	24366101	CF, 100 ohm
RV05	24366101	CF, 100 ohm
RV06	24366101	CF, 100 ohm
RV07	24366101	CF, 100 ohm
RV08	24366101	CF, 100 ohm
RV09	24366101	CF, 100 ohm
RV10	24366101	CF, 100 ohm
RV11	24366101	CF, 100 ohm
RV12	24366101	CF, 100 ohm
RV16	24366104	CF, 100k ohm
RV17	24366104	CF, 100k ohm
RV20	24366104	CF, 100k ohm
RV21	24366104	CF, 100k ohm
RV26	24366680	CF, 68 ohm
RV27	24366910	CF, 91 ohm
RV29	24366820	CF, 82 ohm
RV31	24366820	CF, 82 ohm
RV32	24366820	CF, 82 ohm
RV34	24366161	CF, 160 ohm
RV39	24366910	CF, 91 ohm
RV40	24366680	CF, 68 ohm
RV41	24366103	CF, 10k ohm
RV42	24366750	CF, 75 ohm
RV43	24366620	CF, 62 ohm
RV44	24366620	CF, 62 ohm
RV45	24366620	CF, 62 ohm
RV56	24552221	OMF, 220 ohm, 1/2W
RV60	24552430	OMF, 43 ohm, 1/2W
RV63	24366130	CF, 13 ohm
RV64	24366130	CF, 13 ohm
RV65	24366130	CF, 13 ohm
RV71	24366101	CF, 100 ohm
RV73	24366910	CF, 91 ohm
RV74	24366103	CF, 10k ohm
RV75	24366561	CF, 560 ohm
RV76	24366471	CF, 470 ohm
RV77	24366101	CF, 100 ohm
RV78	24366101	CF, 100 ohm
RV79	24552391	OMF, 390 ohm, 1/2W
RV80	24366471	CF, 470 ohm
RV81	24366471	CF, 470 ohm
RV82	24366104	CF, 100k ohm
RV83	24366104	CF, 100k ohm
RV84	24366102	CF, 1k ohm
RV85	24366102	CF, 1k ohm
RV99	24366473	CF, 47k ohm
RW01	24366101	CF, 100 ohm
RW13	24366102	CF, 1k ohm
RW14	24366102	CF, 1k ohm
RW15	24366104	CF, 100k ohm
RW16	24366104	CF, 100k ohm
RW18	24366680	CF, 68 ohm
RW26	24366104	CF, 100k ohm
RW28	24366472	CF, 4700 ohm
RW29	24366104	CF, 100k ohm

Location No.	Part No.	Description
RW30	24553680	OMF, 68 ohm, 1W
RW31	24366152	CF, 1500 ohm
RW32	24366152	CF, 1500 ohm
RW33	24366223	CF, 22k ohm
RW34	24366273	CF, 27k ohm
RW35	24366223	CF, 22k ohm
RW36	24366273	CF, 27k ohm
RW40	24366103	CF, 10k ohm
RW50	24382101	OMF, 100 ohm, 1W
RW51	24366122	CF, 1200 ohm
RW52	24366821	CF, 820 ohm
RW53	24366912	CF, 9100 ohm
RW54	24366273	CF, 27k ohm
RW55	24366122	CF, 1200 ohm
RW56	24366821	CF, 820 ohm
RW57	24366912	CF, 9100 ohm
RW58	24366273	CF, 27k ohm
RW80	24366271	CF, 270 ohm
RW81	24366271	CF, 270 ohm
RW83	24552221	OMF, 220 ohm, 1/2W
RW85	24366102	CF, 1k ohm
RW86	24366102	CF, 1k ohm
RW87	24366102	CF, 1k ohm
RW88	24366102	CF, 1k ohm
RX31	24366102	CF, 1k ohm
RX32	24366821	CF, 820 ohm
RX34	24366222	CF, 2200 ohm
RX35	24366152	CF, 1500 ohm
RX36	24366511	CF, 510 ohm
RX52	24366101	CF, 100 ohm
RX53	24366101	CF, 100 ohm
RX54	24366101	CF, 100 ohm
RX55	24366181	CF, 180 ohm
RX56	24366181	CF, 180 ohm
RX57	24366181	CF, 180 ohm
RX58	24366223	CF, 22k ohm
RX59	24366223	CF, 22k ohm
RX60	24366223	CF, 22k ohm
RX63	24366101	CF, 100 ohm
RX64	24366101	CF, 100 ohm
RX65	24366101	CF, 100 ohm
RX68	24366822	CF, 8200 ohm
RX69	24366102	CF, 1k ohm
RY66	24366473	CF, 47k ohm
RY67	24366473	CF, 47k ohm
RZ01	24366681	CF, 680 ohm
RZ02	24366132	CF, 1300 ohm
RZ03	24366151	CF, 150 ohm
RZ04	24366561	CF, 560 ohm

COILS & TRANSFORMERS

L101	23238556	Coil, Peaking, TRF4R33AJ
L102	23261985	Coil, RF Choke, TRF9221
L103	23201004	Coil, RF Choke, TRF9202B
L104	23237987	Coil, Peaking, TRF4100AC
L105	23237987	Coil, Peaking, TRF4100AC
L106	23262650	Coil, IF, TRF1149D
L107	23262821	Coil, PIF, TRF1069
L108	23237987	Coil, Peaking, TRF4100AC
L109	23262813	Coil, IF, TRF1077D
L111	23238934	Coil, Peaking, TRF4109AC
L112	23237987	Coil, Peaking, TRF4100AC
L113	23262658	Coil, IF, TRF1153D
L117	23237987	Coil, Peaking, TRF4100AC

Location No.	Part No.	Description
L180	23238714	Coil, Peaking, TRF4100AJ
L230	23289270	Coil, Peaking, TRF4270AF
L261	23238712	Coil, Peaking, TRF4150AJ
L301	23103859	Coil (Ferrite Bead), TEM2011
L302	23289101	Coil, Peaking, TRF4101AF
L315	23289100	Coil, Peaking, TRF4100AF
L412	23221684	Coil, Choke, TLN3191D
L414	23103859	Coil (Ferrite Bead), TEM2011
L421	23211897	Coil, Choke, AT4043/100T (2939DB)
L422	23221968	Coil, Choke, TLN3010 (2939DB)
L422	23221894	Coil, Choke, TLN3063 (3339DB)
L441	23233947	Coil, Linearity, TLN2144G
⚠L462	23231022	Deflection Yoke, TY-29KC4A (2939DB)
⚠L462	----------	DY, Supplied with V901 (3339DB)
L503	23238714	Coil, Peaking, TRF4100AJ
L505	23221685	Coil, Choke, TLN3193
L510	23289100	Coil, Peaking, TRF4100AF
L551	23250972	Coil, 1H-Delay Matching, TRF5418D
L590	23289221	Coil, Peaking, TRF4221AF
L681	23238714	Coil, Peaking, TRF4100AJ
L682	23289100	Coil, Peaking, TRF4100AF
L690	23289100	Coil, Peaking, TRF4100AF
L702	23261974	Coil, Choke, HC5-035
L703	23289220	Coil, Peaking, TRF4220AF
L704	23103859	Coil (Ferrite Bead), TEM2011
L705	23103859	Coil (Ferrite Bead), TEM2011
L721	23238706	Coil, Peaking, TRF4470AJ
L766	23238706	Coil, Peaking, TRF4470AJ
L820	23222694	Coil, Width, TLN2026
L823	23221747	Coil, Choke, TRF9253D
L824	23103859	Coil (Ferrite Bead), TEM2011
L825	23103859	Coil (Ferrite Bead), TEM2011
L826	23221746	Coil, Choke, TLN3155D
L827	23289279	Coil, Peaking, TRF42R7AF
L828	23237770	Coil, Peaking, TRF4R22AC
L834	23103859	Coil (Ferrite Bead), TEM2011
L841	23103859	Coil (Ferrite Bead), TEM2011
L842	23103859	Coil (Ferrite Bead), TEM2011
L844	23103859	Coil (Ferrite Bead), TEM2011
L866	23289229	Coil, Peaking, TRF42R2AF
L871	23103859	Coil (Ferrite Bead), TEM2011
L880	23222694	Coil, Width, TLN2026
L881	23222694	Coil, Width, TLN2026
⚠L901	23200211	Coil, Degaussing, TSB-2337AR (2939DB)
⚠L901	23200215	Coil, Degaussing, TSB-2340AR (3339DB)
LA01	23289100	Coil, Peaking, TRF4100AF
LA04	23238714	Coil, Peaking, TRF4100AJ
LA05	23289100	Coil, Peaking, TRF4100AF
LA12	23221685	Coil, Choke, TLN3193
LB01	23262001	Coil, IF, TRF1166D
LB08	23289101	Coil, Peaking, TRF4101AF
LD01	23107544	Filter, TLC1142T
LD02	23221896	Coil, Choke, TLN3061 (2939DB)
LD02	23221686	Coil, Choke, TLN3197D (3339DB)
LD03	23237986	Coil, Peaking, TRF4120AC
LD04	23237987	Coil, Peaking, TRF4100AC

Location No.	Part No.	Description
LD05	23237987	Coil, Peaking, TRF4100AC
LD06	23237986	Coil, Peaking, TRF4120AC
LD07	23237807	Coil, Peaking, TRF4182AC
LD08	23237807	Coil, Peaking, TRF4182AC
LF02	23238920	Coil, Peaking, TRF4150AC
LF03	23238922	Coil, Peaking, TRF4100AC
LF04	23238922	Coil, Peaking, TRF4100AC
LF05	23238922	Coil, Peaking, TRF4100AC
LF06	23238920	Coil, Peaking, TRF4150AC
LF07	23103941	Coil (Ferrite Bead), TEM2000
LF08	23238714	Coil, Peaking, TRF4100AJ
LF09	23238922	Coil, Peaking, TRF4100AC
LF10	23103941	Coil (Ferrite Bead), TEM2000
LF11	23103941	Coil (Ferrite Bead), TEM2000
LG01	23238713	Coil, Peaking, TRF4120AJ
LG04	23232946	Coil, Variable, TRF3073D
LN02	23238708	Coil, Peaking, TRF4330AJ
LP01	23103859	Coil (Ferrite Bead), TEM2011
LP02	23238714	Coil, Peaking, TRF4100AJ
LT07	23238714	Coil, Peaking, TRF4100AJ
LZ01	23289390	Coil, Peaking, TRF4390AF
LZ02	23289680	Coil, Peaking, TRF4680AF
⚠T401	23224336	Transformer, Horiz. Drive, TLN1083
⚠T461	23236447	Transformer, Flyback, TFB4115AR
⚠T801	23211891	Line Filter, TRF3164
⚠T802	23211928	Line Filter, TRF3129
⚠T803	23217165	Transformer, Converter, 10006180

SEMICONDUCTORS

IC101	23318391	IC, AN5179K
IC102	B0372560	IC, TA78L005AP
IC103	B0372960	IC, TA78L009AP
IC301	B0378560	IC, TA8427K
IC302	B0384680	IC, TA8859P
IC408	23319314	IC, μPC2412HF
IC501	B0383970	IC, TA8783N
IC670	B0377305	IC, TA8218AH
IC827	A6907751	IC, S1854
IC835	23318299	IC, L78MR05
ICA01	23904548	IC, CXP80424-166
ICA07	23319016	IC, μPD6254CX
ICB05	B0470942	IC, TC4094BP
ICD01	B0100120	IC, TB1204N
ICD02	B0385050	IC, TA2009F
ICD03	B0350510	IC, TA75558S
ICE02	23318244	IC, CX20125
ICF01	23904016	IC, SAA5231/V8
ICF02	23318383	IC, SAA5243P/E
ICF03	23904315	IC, BR6265-12LL
ICG03	B0325290	IC, TA7337P
ICG07	B0383935	IC, TA8776N
ICG10	23319808	IC, M5218AP
ICP01	23904408	IC, YM7306C
ICP02	23904407	IC, LH2464-10
ICP03	23318433	IC, M51131L
ICP04	B0470534	IC, TC4053BF
ICP05	B0345640	IC, TA7508F
ICP06	B0345640	IC, TA7508F
ICP07	B0345640	IC, TA7508F
ICP08	B0470534	IC, TC4053BF
ICP10	B0345640	IC, TA7508F

Location No.	Part No.	Description
ICP11	B0350020	IC, TA75458F
ICP12	B0383935	IC, TA8776N
ICP92	B0470532	IC, TC4053BP
ICS01	B0376856	IC, TA8211AH
ICS12	23319808	IC, M5218AP
ICT01	B0384370	IC, TA8814N
ICV01	B0383941	IC, TA8777N FA-1
ICV05	B0372960	IC, TA78L009AP
ICX07	B0372960	IC, TA78L009AP
ICX50	B0383933	IC, TA8775AN
Q106	A6357139	Transistor, 2SC3125 FA-6
Q108	A6357139	Transistor, 2SC3125 FA-6
Q109	A6357139	Transistor, 2SC3125 FA-6
Q110	A6541130	Transistor, 2SA1162-Y
Q113	A6541130	Transistor, 2SA1162-Y
Q115	A6317440	Transistor, 2SC1815-Y
Q118	A6043342	Transistor, 2SK209GR
Q190	A6534053	Transistor, 2SA1015-Y(TE)
Q191	A6317440	Transistor, 2SC1815-Y
Q192	A6534053	Transistor, 2SA1015-Y(TE)
Q202	A6534053	Transistor, 2SA1015-Y(TE)
Q203	A6342206	Transistor, 2SC2878-A(TE)
Q231	A6317440	Transistor, 2SC1815-Y
Q240	A6342206	Transistor, 2SC2878-A(TE)
Q261	A6534053	Transistor, 2SA1015-Y(TE)
Q263	A6317440	Transistor, 2SC1815-Y
Q303	A6333346	Transistor, 2SC2655-Y(C)
Q304	A6333346	Transistor, 2SC2655-Y(C)
Q305	A6317764	Transistor, 2SC1815-GR
Q402	A678971D	Transistor, 2SC1569 FA-5
⚠Q404	A6872801	Transistor, 2SD2253
Q430	A6317440	Transistor, 2SC1815-Y
Q470	A6547250	Transistor, 2SA1320
Q505	A6363200	Transistor, 2SC3619 (2939DB)
Q505	23114900	Transistor, 2SC2068 (3339DB)
Q506	A6317440	Transistor, 2SC1815-Y
Q507	A6363200	Transistor, 2SC3619 (2939DB)
Q507	23114900	Transistor, 2SC2068 (3339DB)
Q508	A6317440	Transistor, 2SC1815-Y
Q509	A6363200	Transistor, 2SC3619 (2939DB)
Q509	23114900	Transistor, 2SC2068 (3339DB)
Q510	A6317440	Transistor, 2SC1815-Y
Q514	A6509127	Transistor, 2SA562TM-O
Q546	A6317440	Transistor, 2SC1815-Y
Q590	A6321265	Transistor, 2SC2120-Y(TE)
Q601	A6335477	Transistor, 2SC2712-Y
Q602	A6335477	Transistor, 2SC2712-Y
Q701	23114528	Transistor, 2SC1740S-Q
Q704	A6734590	Transistor, 2SC752(G)TM-Y
Q705	23114528	Transistor, 2SC1740S-Q
Q706	23114528	Transistor, 2SC1740S-Q
Q707	A6734590	Transistor, 2SC752(G)TM-Y
Q709	23114528	Transistor, 2SC1740S-Q
Q710	23114530	Transistor, 2SA933S-Q
Q711	A6546665	Transistor, 2SA1306-Y
Q712	A6359135	Transistor, 2SC3298A-Y
Q715	A6002030	Transistor, RN1203
Q720	A6317440	Transistor, 2SC1815-Y

Location No.	Part No.	Description
Q764	A6534053	Transistor, 2SA1015-Y(TE)
Q766	A6317440	Transistor, 2SC1815-Y
Q820	A6333346	Transistor, 2SC2655-Y(C)
Q821	A6330438	Transistor, 2SC2500-C(C)
Q822	A6542312	Transistor, 2SA1160-B(C)
Q823	23314777	Transistor, 2SC3927(A)
Q824	A6317764	Transistor, 2SC1815-GR
Q825	A6317440	Transistor, 2SC1815-Y
⚠Q826	A8643106	Photo Coupler, TLP621(GR)
Q828	A6325067	Transistor, 2SC2230A-Y(C)
⚠Q829	A8643106	Photo Coupler, TLP621(GR)
Q831	A6002060	Transistor, RN1206
Q832	A6534053	Transistor, 2SA1015-Y(TE)
Q834	A6002060	Transistor, RN1206
Q836	A6534053	Transistor, 2SA1015-Y(TE)
Q838	A6534053	Transistor, 2SA1015-Y(TE)
Q839	A6509154	Transistor, 2SA562TM-Y(T)
Q840	A6317440	Transistor, 2SC1815-Y
Q841	A6534053	Transistor, 2SA1015-Y(TE)
Q842	A6534053	Transistor, 2SA1015-Y(TE)
Q860	23314141	Transistor, 2SC3852
Q861	23314141	Transistor, 2SC3852
Q870	A6333346	Transistor, 2SC2655-Y(C)
Q871	A6317440	Transistor, 2SC1815-Y
QA02	A6342206	Transistor, 2SC2878-A(TE)
QA03	A6317440	Transistor, 2SC1815-Y
QA04	A6317440	Transistor, 2SC1815-Y
QA06	A6317440	Transistor, 2SC1815-Y
QA09	A6534053	Transistor, 2SA1015-Y(TE)
QA10	A6317440	Transistor, 2SC1815-Y
QA11	A6534053	Transistor, 2SA1015-Y(TE)
QA12	A6342206	Transistor, 2SC2878-A(TE)
QA99	A6317440	Transistor, 2SC1815-Y
QB01(U904)	A6534053	Transistor, 2SA1015-Y(TE)
QB01(U902)	A6317440	Transistor, 2SC1815-Y
QB02	A6317440	Transistor, 2SC1815-Y
QB06	A6317440	Transistor, 2SC1815-Y
QB21	A6010040	Transistor, RN2004
QB22	A6342206	Transistor, 2SC2878-A(TE)
QB23	A6342206	Transistor, 2SC2878-A(TE)
QB24	A6342206	Transistor, 2SC2878-A(TE)
QB25	A6342206	Transistor, 2SC2878-A(TE)
QB26	A6010040	Transistor, RN2004
QD01	A6625365	Transistor, 2SB688-O(BS)
QD02	A6317440	Transistor, 2SC1815-Y
QD03	A6317440	Transistor, 2SC1815-Y
QD04	A6357139	Transistor, 2SC3125 FA-6
QD05	A6335477	Transistor, 2SC2712-Y
QD10	A6335477	Transistor, 2SC2712-Y
QE62	A6317440	Transistor, 2SC1815-Y
QF07	A6335477	Transistor, 2SC2712-Y
QG08	A6002040	Transistor, RN1204
QG09	A6002040	Transistor, RN1204
QG13	A6335477	Transistor, 2SC2712-Y
QN08	A6317440	Transistor, 2SC1815-Y
QN13	A6342206	Transistor, 2SC2878-A(TE)
QN14	A6342206	Transistor, 2SC2878-A(TE)
QN16	A6342206	Transistor, 2SC2878-A(TE)
QN17	A6342206	Transistor, 2SC2878-A(TE)
QP14	A6359860	Transistor, 2SC3326-A
QP15	A6335477	Transistor, 2SC2712-Y
QP16	A6359860	Transistor, 2SC3326-A
QP17	A6359860	Transistor, 2SC3326-A
QP80	A6317440	Transistor, 2SC1815-Y

Location No.	Part No.	Description
QP86	A6534053	Transistor, 2SA1015-Y(TE)
QP91	A6002040	Transistor, RN1204
QS02	A6342206	Transistor, 2SC2878-A(TE)
QS10	A6002040	Transistor, RN1204
QS14	A6342206	Transistor, 2SC2878-A(TE)
QS20	A6534053	Transistor, 2SA1015-Y(TE)
QT05	A6317440	Transistor, 2SC1815-Y
QT06	A6317440	Transistor, 2SC1815-Y
QT07	A6317440	Transistor, 2SC1815-Y
QT08	A6317440	Transistor, 2SC1815-Y
QT09	A6317440	Transistor, 2SC1815-Y
QV02	A6534053	Transistor, 2SA1015-Y(TE)
QV04	A6319311	Transistor, 2SC1959-Y(TE)
QV06	A6002030	Transistor, RN1203
QW31	A6317440	Transistor, 2SC1815-Y
QW32	A6317440	Transistor, 2SC1815-Y
QW50	A6317440	Transistor, 2SC1815-Y
QW51	A6317440	Transistor, 2SC1815-Y
QX31	A6317440	Transistor, 2SC1815-Y
QY30	A6734585	Transistor, 2SC752GTM-O
D101	A7150258	Diode, 1SS176
D102	A7150258	Diode, 1SS176
D110	23115878	Diode, Zener, μPC574J, (L)
D241	23115599	Diode, 1N4148
D242	23115599	Diode, 1N4148
D243	23115599	Diode, 1N4148
D246	23115599	Diode, 1N4148
D263	23316318	Diode, Zener, UZ7.5BSB
D301	23118095	Diode, ERB44-06
D302	23118479	Diode, BYD33J
D303	23115599	Diode, 1N4148
D304	23316291	Diode, Zener, UZ3.0BSB
D310	23115599	Diode, 1N4148
D320	23118822	Diode, ERB12-02RK
D321	23118822	Diode, ERB12-02RK
D332	24000255	Diode, SC570A
D340	23115599	Diode, 1N4148
D401	23316333	Diode, Zener, UZ12BSB
D402	23316367	Diode, Zener, UZ33BS, B
D403	23316333	Diode, Zener, UZ12BSB
D406	23118479	Diode, BYD33J
D408	23118052	Diode, RU4Z
D410	23316321	Diode, Zener, UZ8.2BSB
D471	A7801233	SCR, SF0R3G42(G5H1)
D474	23316342	Diode, Zener, UZ16BSB
D475	23316333	Diode, Zener, UZ12BSB
D590	23115599	Diode, 1N4148
D591	23115599	Diode, 1N4148
D592	23115599	Diode, 1N4148
D593	23115599	Diode, 1N4148
D594	23115599	Diode, 1N4148
D595	23115599	Diode, 1N4148
D670	23115599	Diode, 1N4148
D671	23115599	Diode, 1N4148
D672	23115599	Diode, 1N4148
D673	23115599	Diode, 1N4148
D674	23115599	Diode, 1N4148
D675	23115599	Diode, 1N4148
D704	23115599	Diode, 1N4148
D705	23115599	Diode, 1N4148
D706	A7568475	Diode, TVR-2D
D707	A7568475	Diode, TVR-2D
D711	23115599	Diode, 1N4148
D801	23316275	Diode, RBV606 LF-A

Location No.	Part No.	Description
D820	23118479	Diode, BYD33J
D821	23316327	Diode, Zener, UZ10BSB
D822	23316381	Diode, RU1P
D823	23316336	Diode, Zener, UZ13BSB
D824	23118479	Diode, BYD33J
D825	23316554	Diode, 1SS146
D828	23115599	Diode, 1N4148
D829	23316184	Diode, FML-G12S
D831	23316184	Diode, FML-G12S
D832	23316406	Diode, FML-G16S
D834	23115599	Diode, 1N4148
D836	23316309	Diode, Zener, UZ5.6BSB
D838	23115599	Diode, 1N4148
D839	23115599	Diode, 1N4148
D840	23115599	Diode, 1N4148
D842	23115599	Diode, 1N4148
D844	23316332	Diode, Zener, UZ12BSA
D859	23115599	Diode, 1N4148
D861	23316309	Diode, Zener, UZ5.6BSB
D862	23115599	Diode, 1N4148
D863	23316312	Diode, Zener, UZ6.2BSB
D864	23316313	Diode, Zener, UZ6.2BSC
D873	23115599	Diode, 1N4148
D874	23316307	Diode, Zener, UZ5.1BSC
D875	23115599	Diode, 1N4148
D877	23115599	Diode, 1N4148
D878	23316308	Diode, Zener, UZ5.6BSA
D879	23316349	Diode, Zener, UZ20BSC
D880	23118479	Diode, BYD33J
D881	23115599	Diode, 1N4148
DA01	23316310	Diode, Zener, UZ5.6BSC
DA02	23316312	Diode, Zener, UZ6.2BSB
DA03	23316312	Diode, Zener, UZ6.2BSB
DA04	23115599	Diode, 1N4148
DA05	23115599	Diode, 1N4148
DA06	23115599	Diode, 1N4148
DA21	23115599	Diode, 1N4148
DA29	23316312	Diode, Zener, UZ6.2BSB
DA31	23316312	Diode, Zener, UZ6.2BSB
DA32	23316312	Diode, Zener, UZ6.2BSB
DA33	23316312	Diode, Zener, UZ6.2BSB
DA34	23316312	Diode, Zener, UZ6.2BSB
DB02	23115599	Diode, 1N4148
DB03	23115599	Diode, 1N4148
DB04	23115599	Diode, 1N4148
DB07	23316312	Diode, Zener, UZ6.2BSB
DB08	23316312	Diode, Zener, UZ6.2BSB
DD01(U904)	23118479	Diode, BYD33J
DD01(UD01)	A7150258	Diode, 1SS176
DD02	23316582	Diode, ERC20-06
DD03	23118479	Diode, BYD33J
DD04	23115599	Diode, 1N4148
DD05	23316332	Diode, Zener, UZ12BSA
DD06	23316309	Diode, Zener, UZ5.6BSB
DD07	23316309	Diode, Zener, UZ5.6BSB
DD08	A7150258	Diode, 1SS176
DE50	23358501	Diode (LED), SCL003URC5F, Red
DE60	23115599	Diode, 1N4148
DE61	23115599	Diode, 1N4148
DE64	23316306	Diode, Zener, UZ5.1BSB
DP01	A7150675	Diode, 1SS184-CN(TR)
DP02	A7150675	Diode, 1SS184-CN(TR)
DP03	A7150675	Diode, 1SS184-CN(TR)

Location No.	Part No.	Description
DP80	A7150351	Diode, 1SS178
DS01(U902)	23115599	Diode, 1N4148
DS01(U904)	23115599	Diode, 1N4148
DS02	23115599	Diode, 1N4148
DS03	23115599	Diode, 1N4148
DS07(U902)	23115599	Diode, 1N4148
DS07(U904)	23115599	Diode, 1N4148
DS95	23115599	Diode, 1N4148
DS96	23115599	Diode, 1N4148
DS98	23115599	Diode, 1N4148
DT50	23358495	Diode (LED), SCL003MC5FXH, Green
DV08	23115599	Diode, 1N4148
DX30	23115599	Diode, 1N4148
DX31	23115599	Diode, 1N4148
DX56	23115599	Diode, 1N4148
DX57	23115599	Diode, 1N4148
DX58	23115599	Diode, 1N4148
MISCELLANEOUS		
E507	23845609	Clip, Plastic Rivet (2939DB)
B121	23712306	Screw, PP3X.5X6SZN
B202	23864762	Frame, Terminal
⚠F801	23144898	Fuse, 3.15A
F801A	23165433	Holder, Fuse
⚠F802	23144898	Fuse, 3.15A
F802A	23165433	Holder, Fuse
⚠F803	23144873	Fuse, 1.0A, 250V
F803A	23165433	Holder, Fuse
K901	23120220	Remote Sensor, IR-9109A-K
P101A	23368006	Connector, 8P
P101B	23902743	Connector, 8P
P102A	23368006	Connector, 8P
P102B	23902743	Connector, 8P
P410A	23902751	Connector, 8P
P410B	23368519	Connector, 8P
P411A	23902750	Connector, 7P
P411B	23368518	Connector, 7P
P661	23363607	Jack, Headphone, 3.5mm
P663	23367392	Plug, 3P
P664	23164550	Plug, 3P
P701B	23367392	Plug, 3P
⚠P801	23176934	Power Cord
PA01A	23368519	Connector, 8P
PA01B	23902751	Connector, 8P
PA02A	23368518	Connector, 7P
PA02B	23902750	Connector, 7P
PA05A	23368517	Connector, 6P
PA05B	23902749	Connector, 6P
PA06A	23368517	Connector, 6P
PA06B	23902749	Connector, 6P
PA07A	23368518	Connector, 7P
PA07B	23902750	Connector, 7P
PD01A	23368130	Connector, 10P
PD01B	23902745	Connector, 10P
PF01A	23367721	Connector, 9P
PF01B	23902744	Connector, 9P
PF02A	23368005	Connector, 6P
PF02B	23902741	Connector, 6P
PH01	23902604	Socket, 21P
PH02	23902604	Socket, 21P
PH03	23161702	Terminal, 8P
PH07	23363872	Pin Jack, Yellow

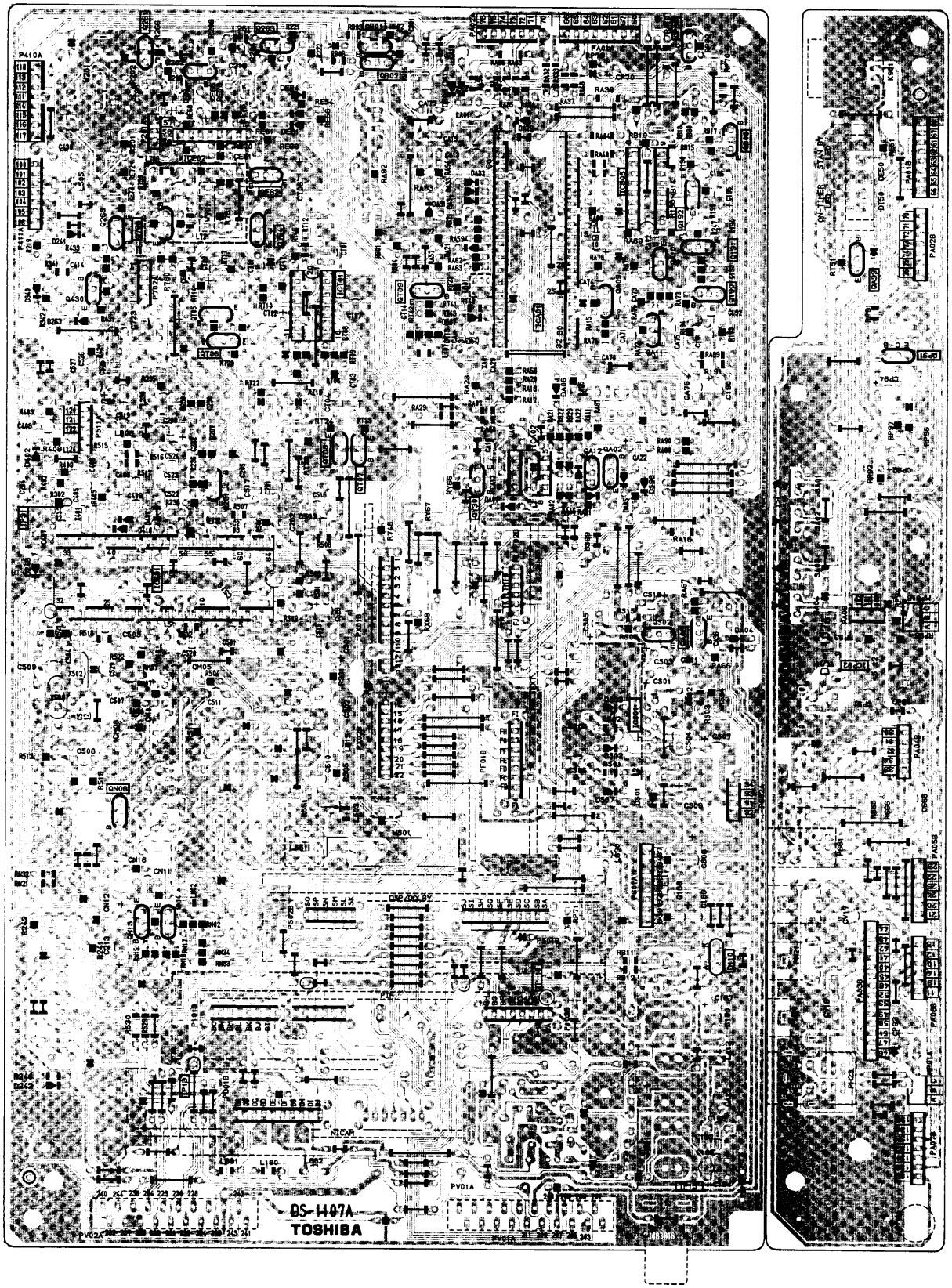
Location No.	Part No.	Description
PH08	23363871	Pin Jack, Red
PH09	23363873	Pin Jack, White
PH10	23363872	Pin Jack, Yellow
PH11	23363871	Pin Jack, Red
PH12	23365722	Pin Jack, White, 4P
PH13	23365361	Jack, 4P
PH20	23363252	Pin Jack, Yellow
PH21	23365508	Jack, Phono, 2P
PH23	23365546	Jack, 4P
PP01	23368130	Connector, 10P
PP02	23368005	Connector, 6P
PS01B	23902745	Connector, 10P
PS02B	23902741	Connector, 6P
PV01A	23902748	Connector, 20P
PV01B	23368520	Connector, 20P
PV02A	23902748	Connector, 20P
PV02B	23368520	Connector, 20P
PX01A	23367722	Connector, 13P
PX01B	23902746	Connector, 13P
PX02A	23367721	Connector, 9P
PX02B	23902744	Connector, 9P
⚠S801	23145434	Switch, Power, 2C2P
SA01	23145430	Switch, Push, 1C1P
SA02	23145430	Switch, Push, 1C1P
SA03	23145430	Switch, Push, 1C1P
SA04	23145430	Switch, Push, 1C1P
SV02	23145355	Switch, Slide, 4C2P
⚠V901A	23902067	Socket, CRT, 10P
W008	23351002	Speaker, SPK-1276, 80x80mm, 8 ohm
W201	23250870	Coil, Delay-Line, TRF2100
W501	23153357	1H Delay-Line, EFDED645A91M
W661	23351038	Speaker, SPK-1311, 60x120mm, 8 ohm
W662	23351053	Speaker, SPK-1326, 50x50mm, 8 ohm
W663	23351038	Speaker, SPK-1311, 60x120mm, 8 ohm
W664	23351053	Speaker, SPK-1326, 50x50mm, 8 ohm
W665	23351080	Speaker, SPK-1352, 100x100mm, 6 ohm
W761	23351002	Speaker, SPK-1276, 80x80mm, 8 ohm
W762	23351002	Speaker, SPK-1276, 80x80mm, 8 ohm
W701	23250866	Coil, Delay Line, TRF2096
X401	23153721	Ceramic Resonator, 503kHz, TCR1023
X501	23153979	Crystal, 4.43MHz
X502	23153961	Crystal, 3.58MHz
XA01	23153845	Ceramic Resonator, 4.0MHz, TCR1015
XD01	23153013	Crystal, 11.648MHz
XD04	23153670	Crystal, 6.552MHz
XF01	23153384	Crystal, 13.875MHz
XF02	23153379	Crystal, 6.000MHz
XP01	23153354	Ceramic Resonator, 8.38MHz, TCR1058
Z101	A5615250	PIF SAW Filter, F1805C
Z102	23107926	Ceramic Video Trap, 6.0MHz, TCF1012

Location No.	Part No.	Description
ZD01	23107926	Ceramic Video Trap, 6.0MHz, TCF1012
ZF01	23107746	Filter, 3MHz, TEM1010
ZG01	23107930	Ceramic Filter, 6.0MHz, TCF1008
ZP01	23303108	Filter, 12kHz, TLC1203T
ZP02	23303108	Filter, 12kHz, TLC1203T
ZP81	23144451	Protector, PRF5000
ZP82	23144450	Protector, PRF2000
ZP90	23146550	Relay, DC12V
ZZ02	23303055	Ceramic Video Trap, TCF1084
ZZ04	23107849	Ceramic Video Trap, 4.43MHz, TCF1032
PC BOARD ASSEMBLIES		
U902A	23701976	Main Board, PB3779-1 (2939DB)
U902A	23702401	Main Board, PB4138-1 (3339DB)
U902B	23701977	A/V Board, PB3779-2 (2939DB)
U902B	23702402	A/V Board, PB4138-2 (3339DB)
U903A	23702043	Back Terminal Board, PB3783-1 (2939DB)
U903A	23702403	Back Terminal Board, PB4139-1 (3339DB)
U903B	23702044	CRT Drive Board, PB3783-2 (2939DB)
U903B	23702404	CRT Drive Board, PB4139-2 (3339DB)
U903C	23702045	D.S/M Board, PB3783-3 (2939DB)
U903C	23702405	D.S/M Board, PB4139-3 (3339DB)
U903D	23702046	RGB Board, PB3783-4 (2939DB)
U903D	23702406	RGB Board, PB4139-4 (3339DB)
U904	23701979	Power/Audio Board, PB3782-1 (2939DB)
U904	23702400	Power/Audio Board, PB4140 (3339DB)
Y991Z(U101)	23369727	PIF Board, PB2616
Y992Z(UD01)	23369729	NICAM Board, PB2617
Y993Z(US01)	23702286	Dol./Prolg. Board, PB3780
Y994Z(UF01)	23369726	Text Board, PB2619
PICTURE TUBE		
⚠V901	A5596039	Picture Tube, A68KLF96X(K), SVC (2939DB)
⚠V901	23312479	Picture Tube, A80EBK221X11 (3339DB)
TUNER		
H001	23321003	Tuner, UHF, UF785L1
ACCESSORIES		
K902	23120100	Remote Hand Unit, CT-9626
AT03	23305170	Battery Cover
Y101	23561905	Owner's Manual, English, 2939DB/3339DB
Y132	23431245	Cap (2939DB)

Location No.	Part No.	Description

CONT. AV BOARD PB3779-2

BOTTOM (FOIL) SIDE

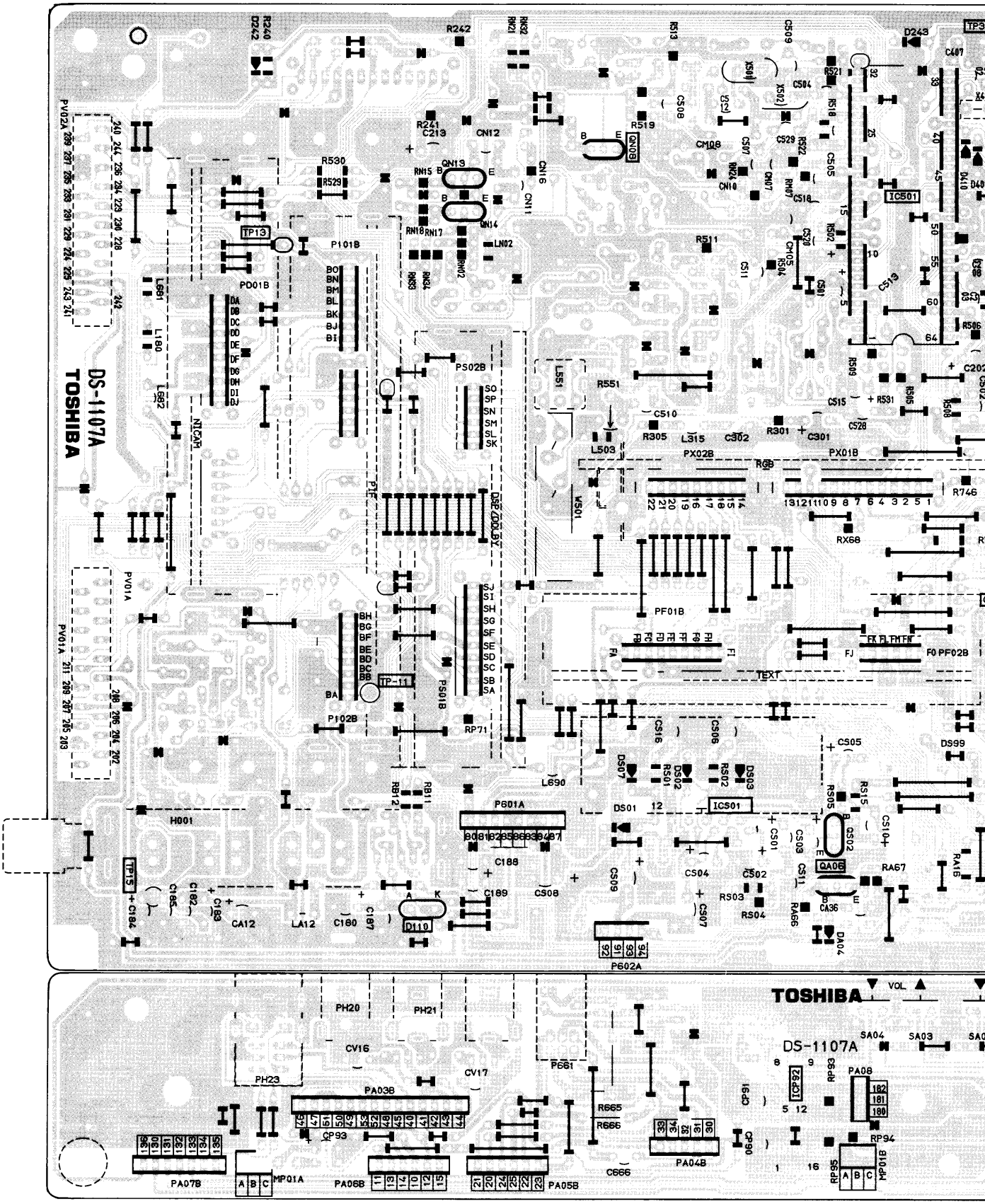


MAIN BOARD PB3779-1

BOTTOM (FOIL) SIDE

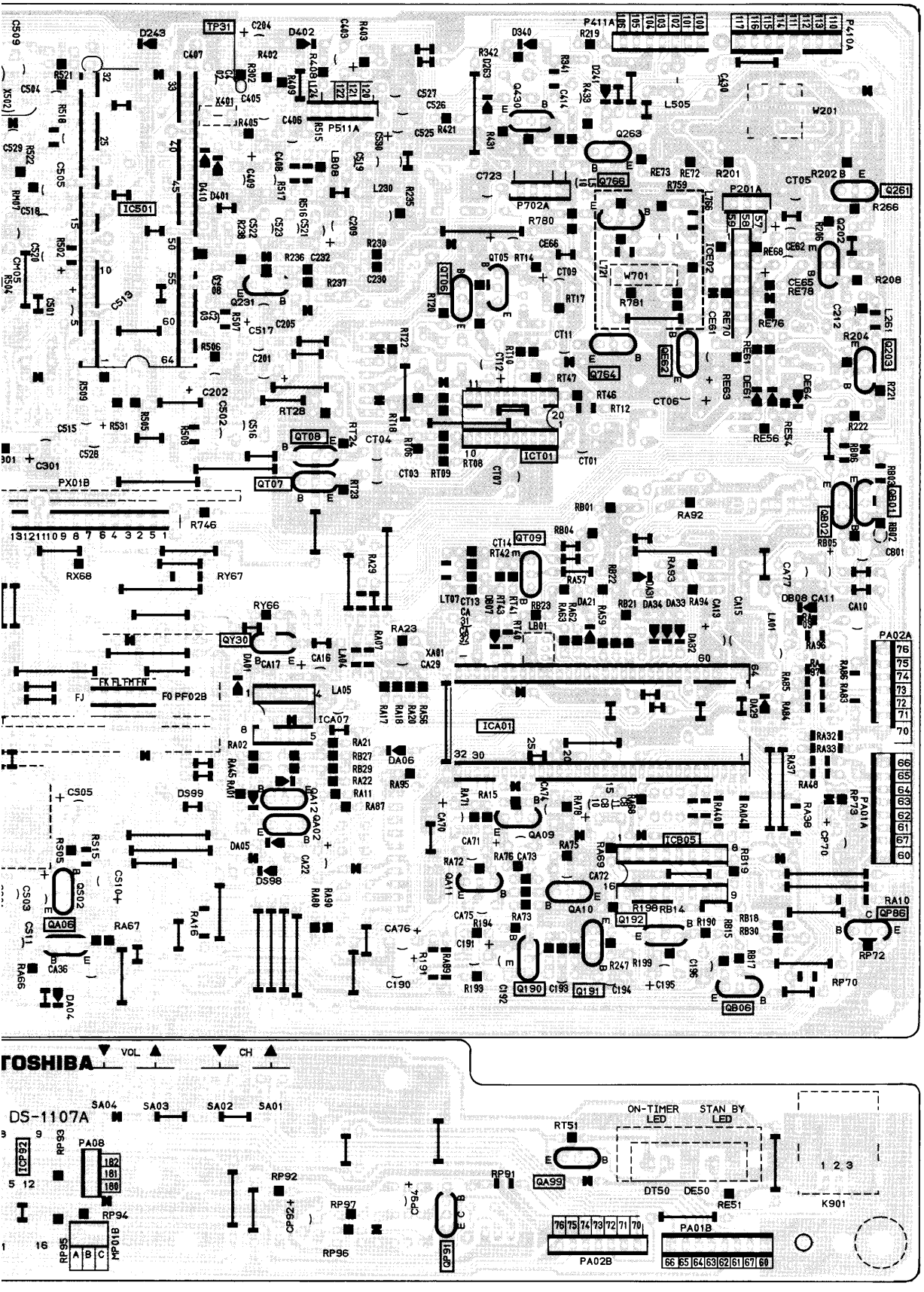
MAIN BOARD PB3779-

BOTTOM (FOIL) SIDE



BOARD PB3779-1

OTTOM (FOIL) SIDE

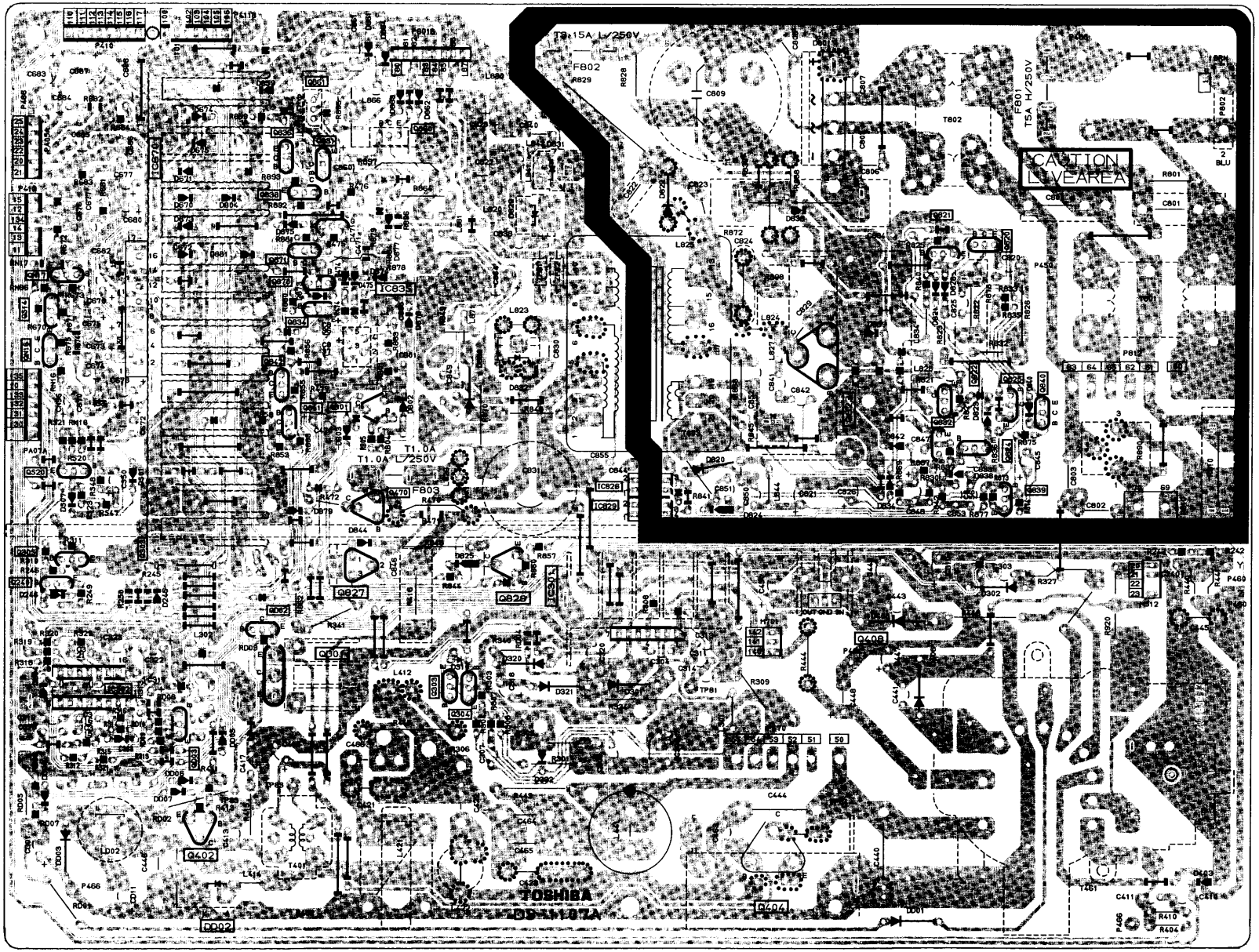


CONT. AV BOARD PB3779-2

BOTTOM (FOIL) SIDE

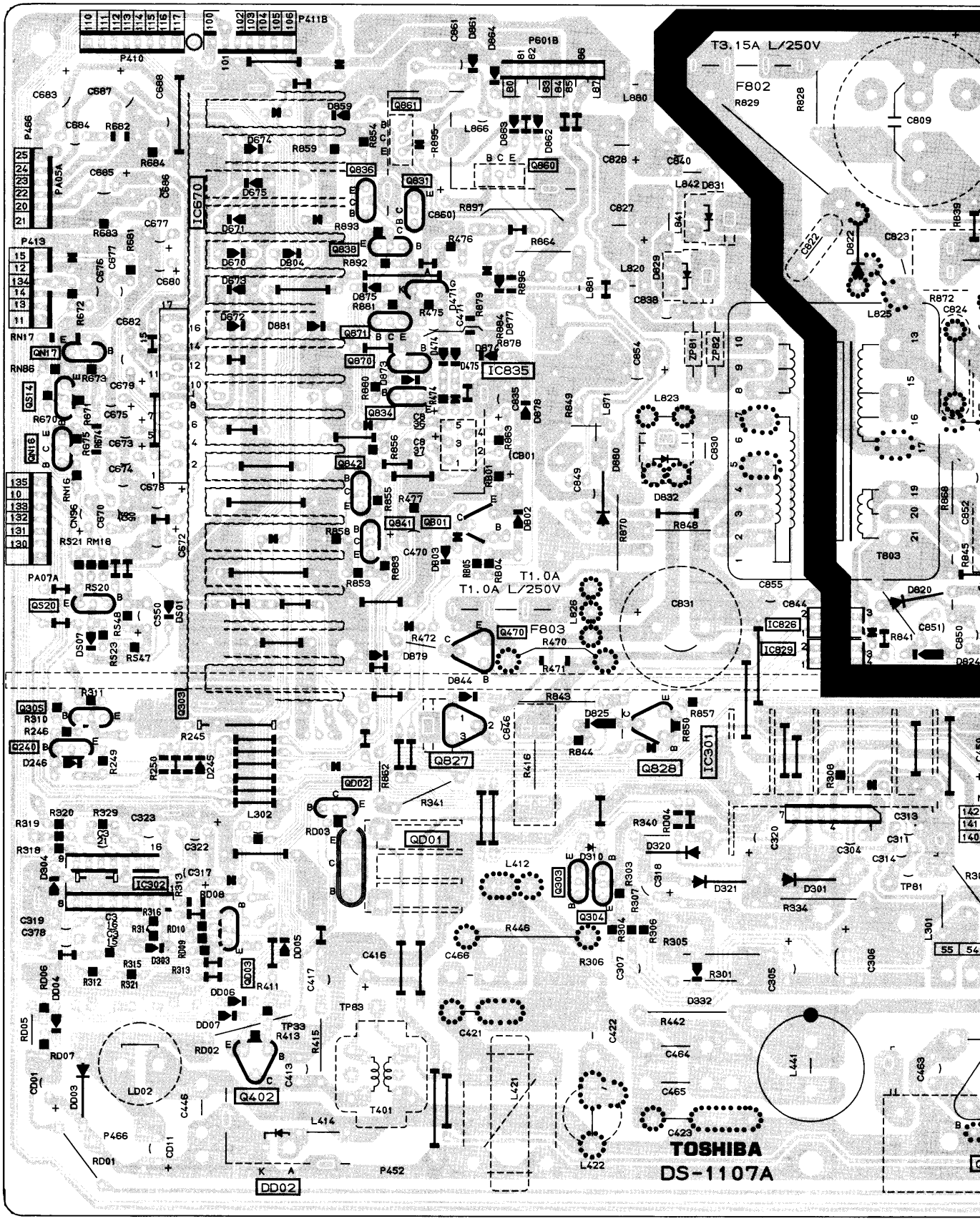
POWER/AUDIO BOARD PB3782

BOTTOM (FOIL) SIDE



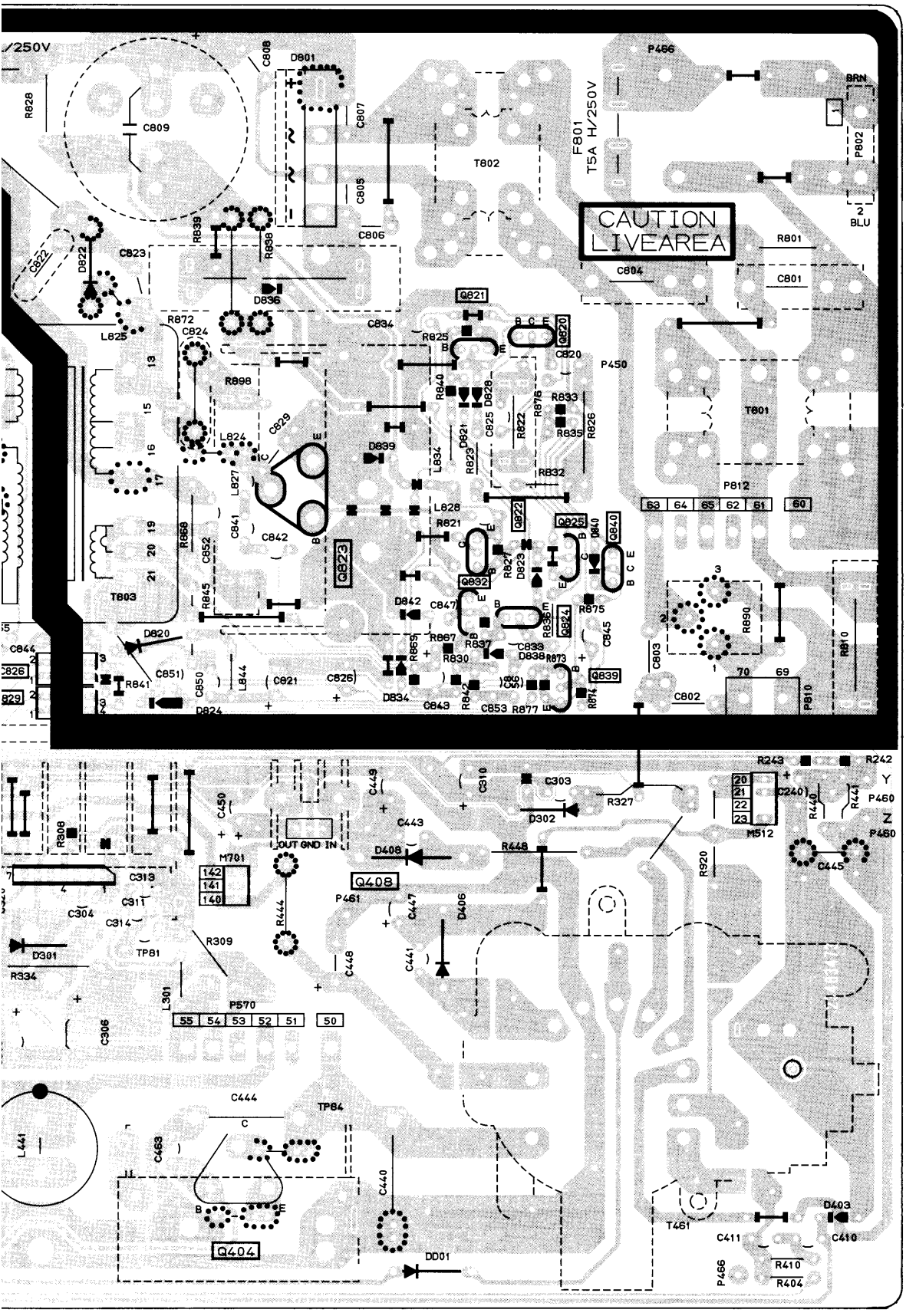
POWER/AUDIO BOARD PB3

BOTTOM (FOIL) SIDE



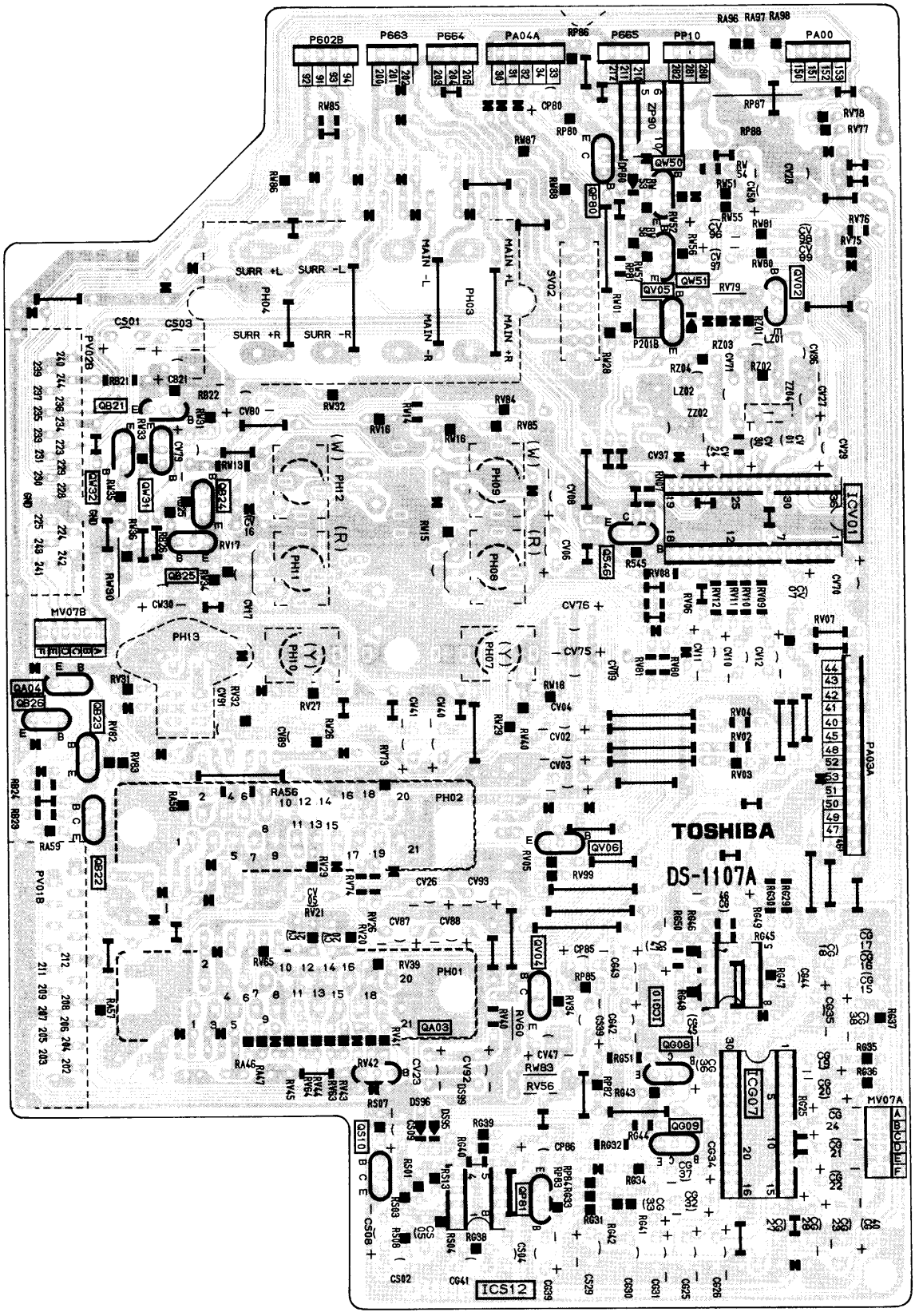
IO BOARD PB3782

ОМ (FOIL) SIDE



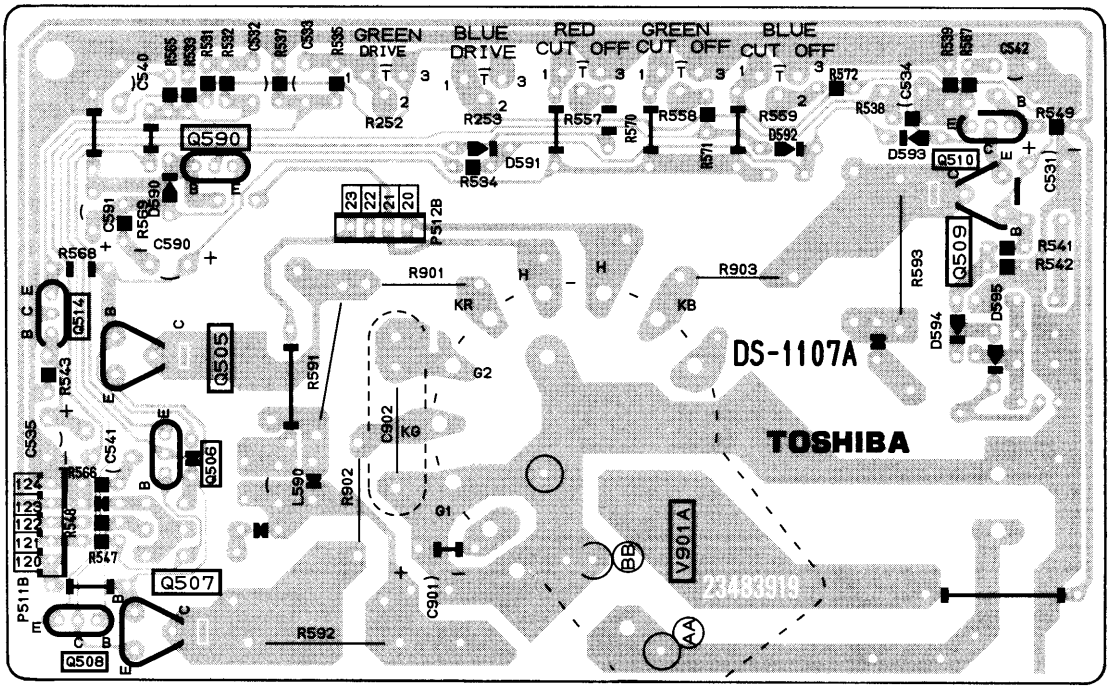
BACK TERMINAL BOARD PB3783-1

BOTTOM (FOIL) SIDE



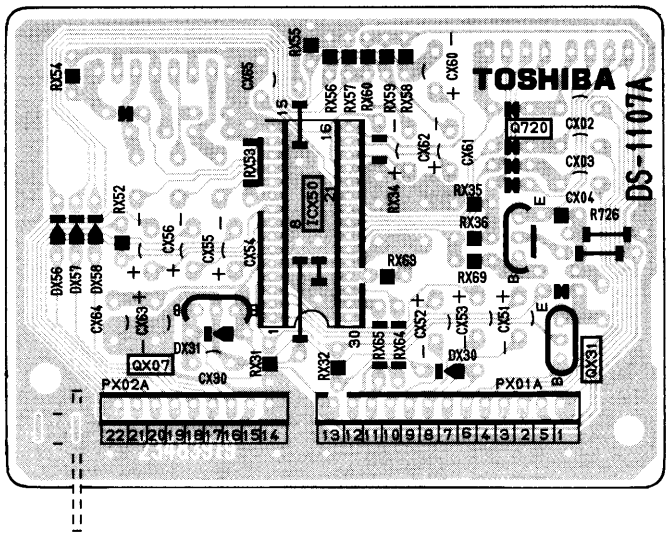
CRT DRIVE BOARD PB3783-2

BOTTOM (FOIL) SIDE



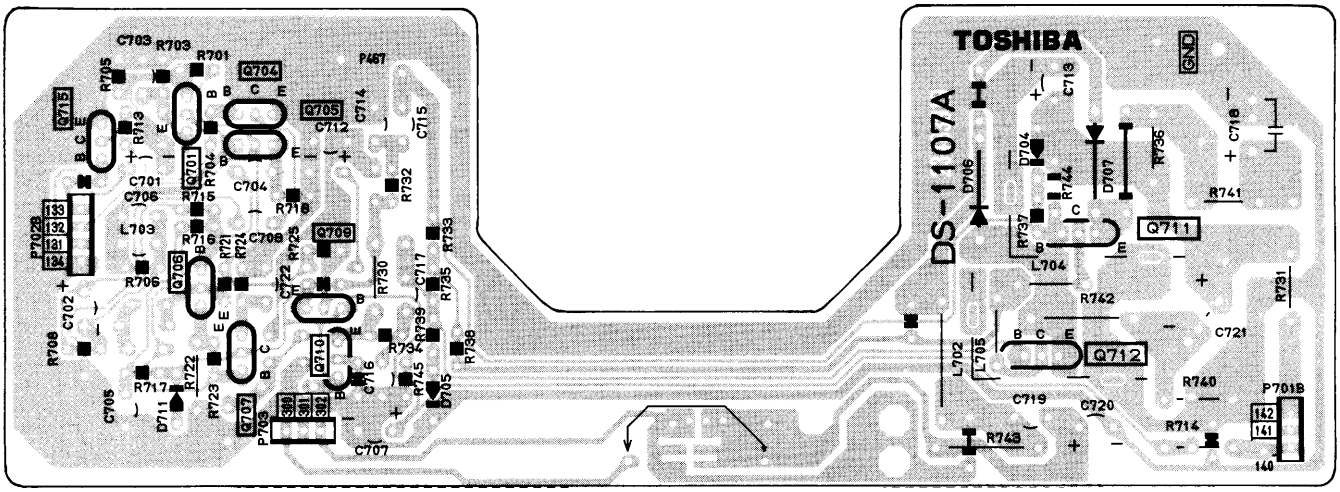
DSM BOARD PB3783-3

BOTTOM (FOIL) SIDE



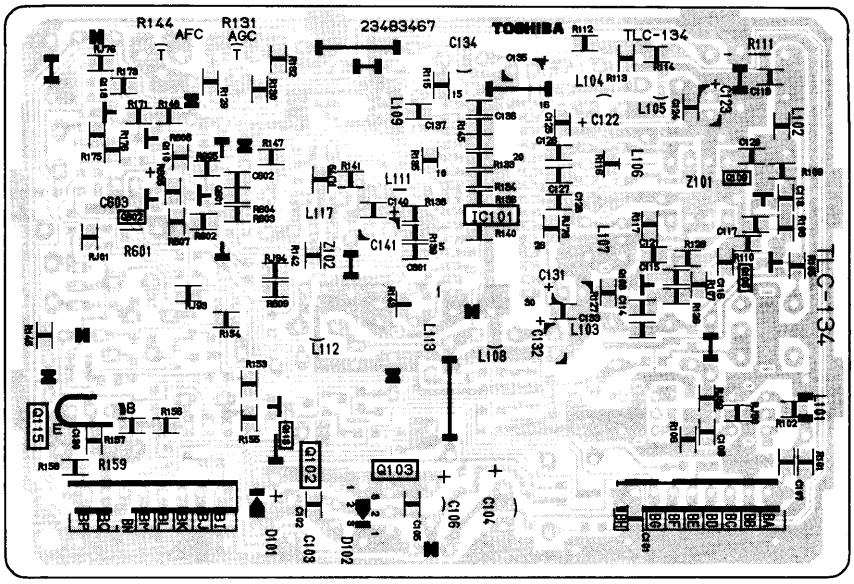
RGB SW BOARD PB3783-4

BOTTOM (FOIL) SIDE



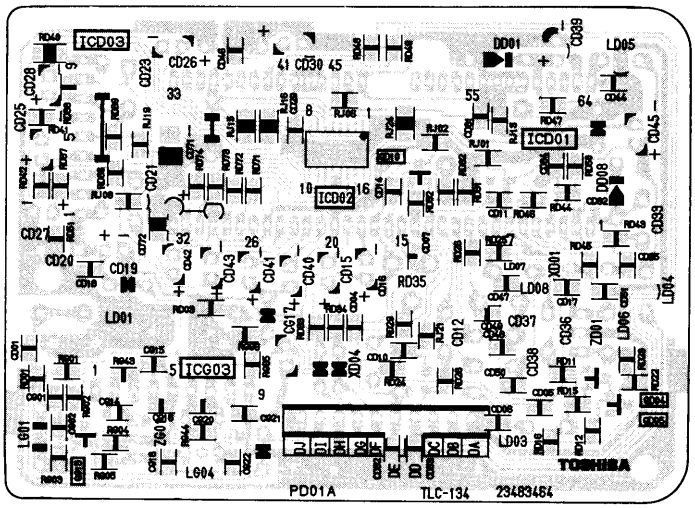
PIF BOARD PB2616

BOTTOM (FOIL) SIDE



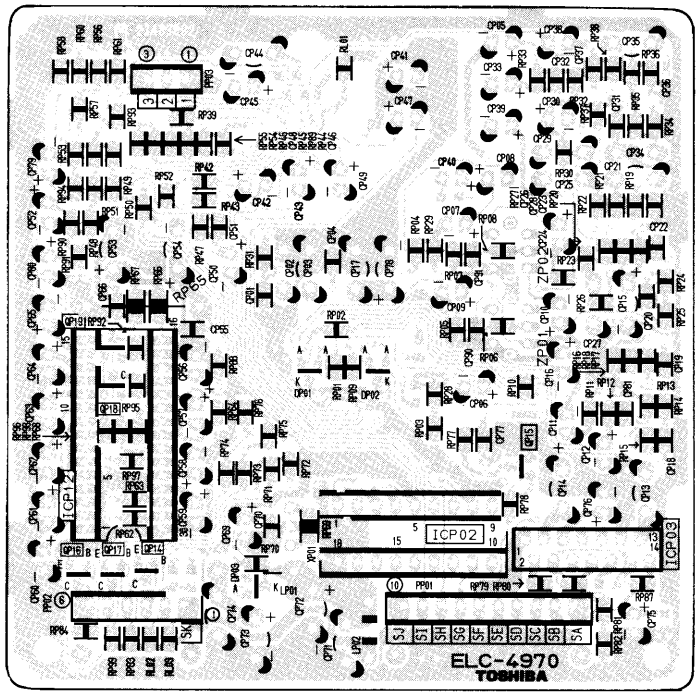
NICAM BOARD PB2617

BOTTOM (FOIL) SIDE



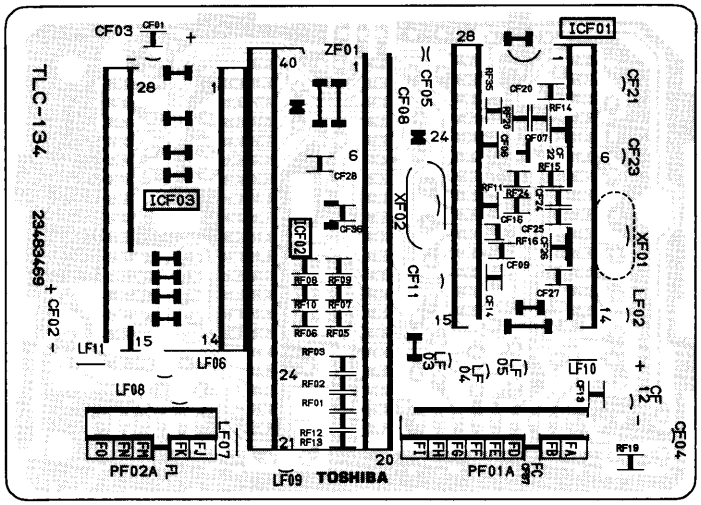
DOL./PROLG. BOARD PB3780

BOTTOM (FOIL) SIDE



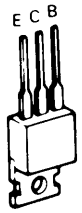
TEXT BOARD PB2619

BOTTOM (FOIL) SIDE

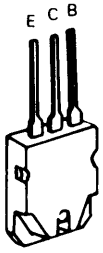


TERMINAL VIEW OF TRANSISTORS

① 2SC1569



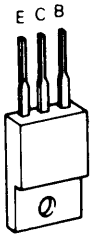
② 2SC3927(A)



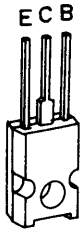
③ 2SC2580-C
2SC2655

④ 2SA933S
2SA1015-Y
2SA1320-Y
2SC752GTM
2SC1685-Q
2SC1740S
2SC1815-N
2SC1959-Y
2SC2120-Y
2SC2878-A

⑤ 2SB1186A
2SC3852
2SD2253

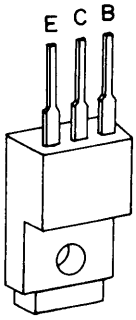


⑥ 2SC3619

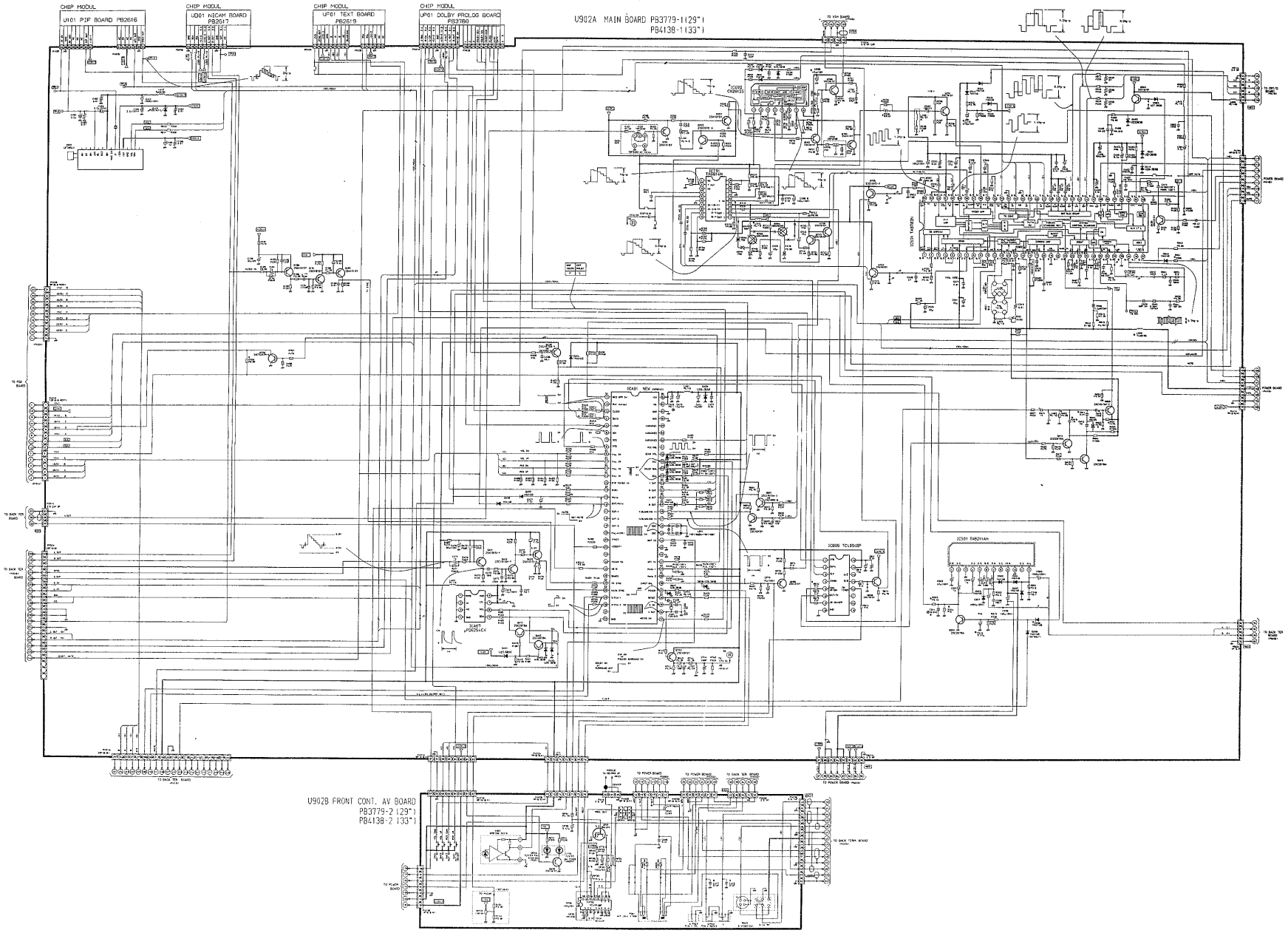


⑦ RN1203
RN1204
RN1206
RN2004

⑧ 2SB1186A
2SD1763A

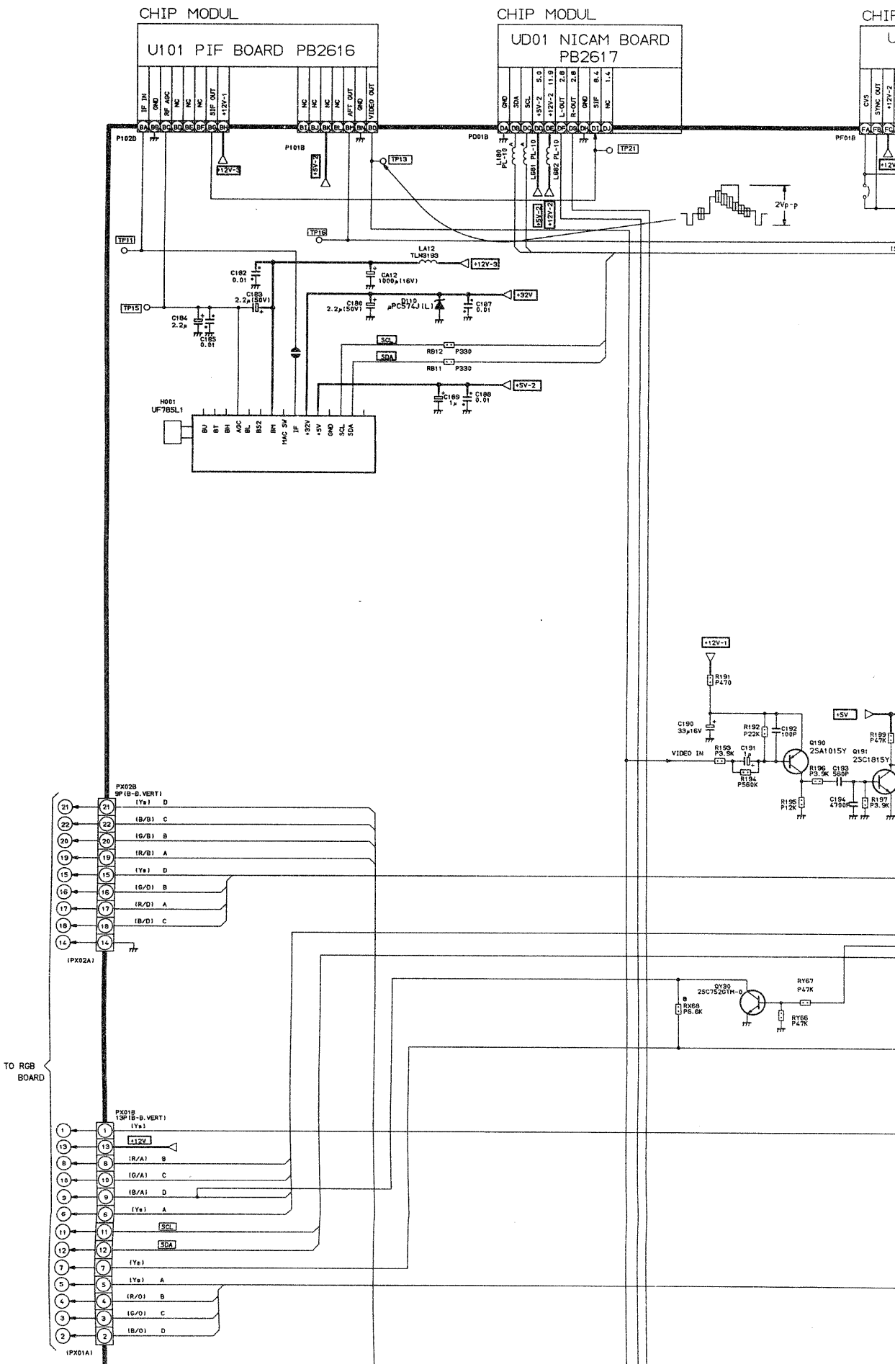


2939DB : 3339DB SCHEMATIC DIAGRAM (1/3)

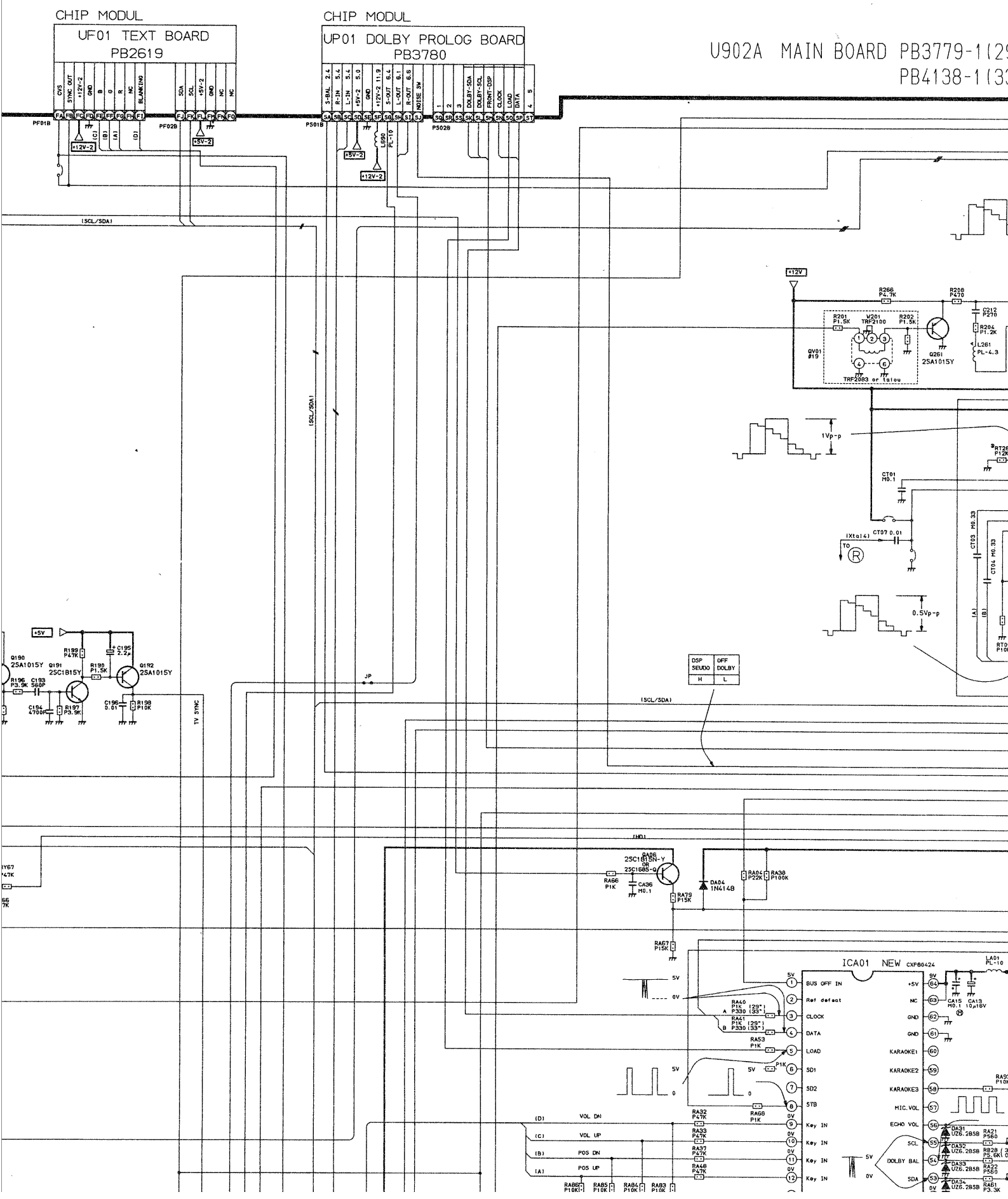


2939DB : 3339DB

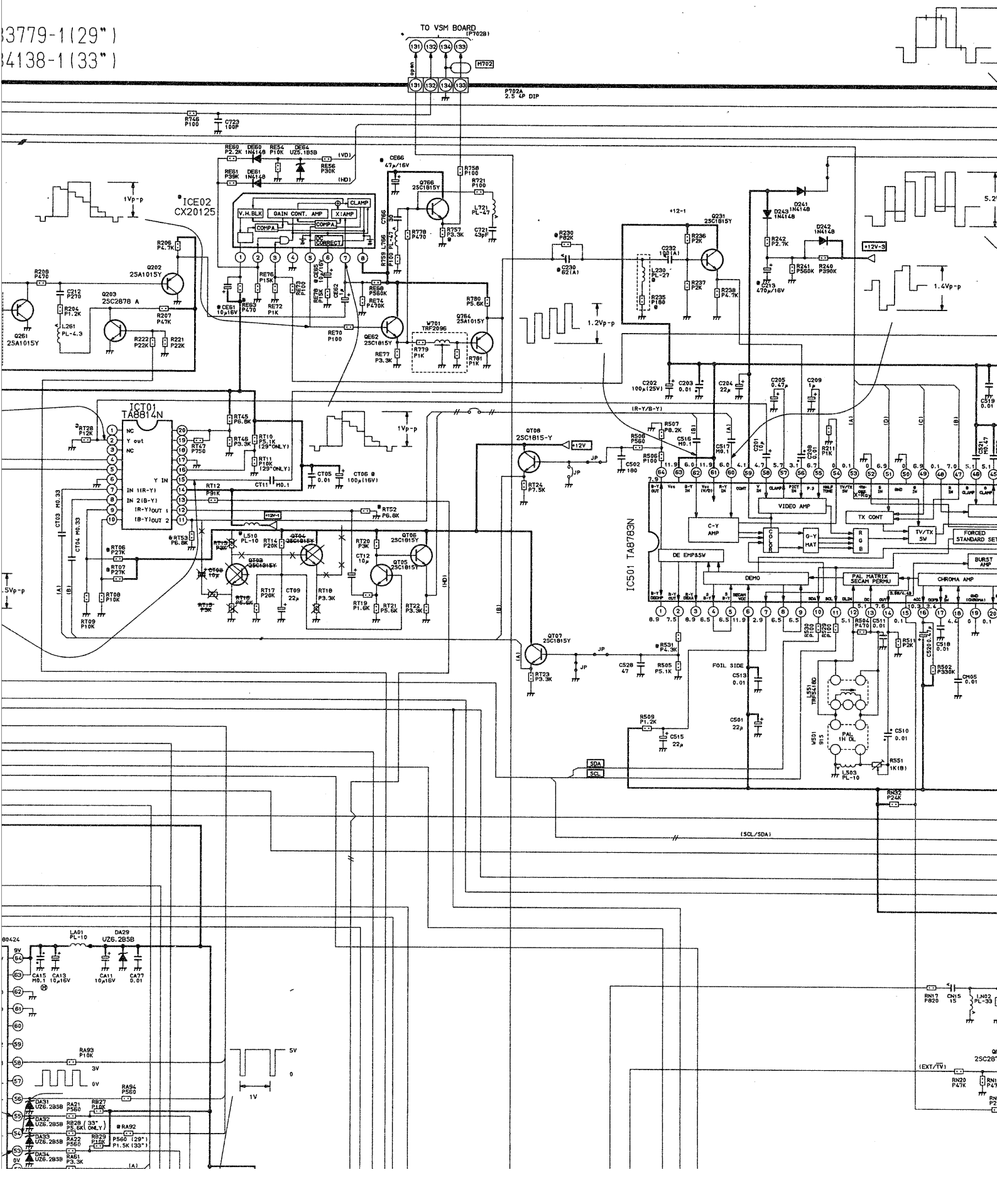
SCHEMATIC DIAGRAM (1/3)

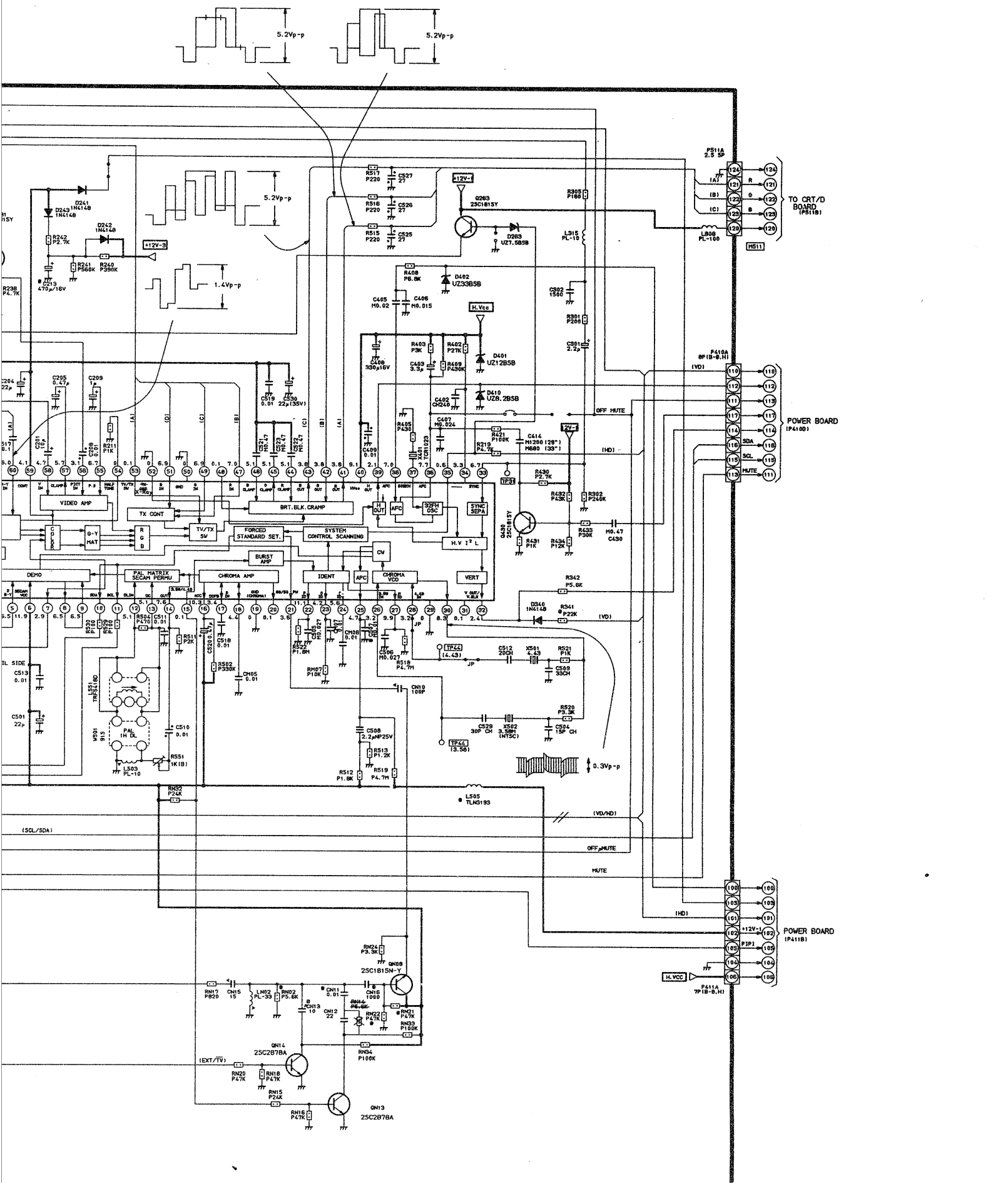


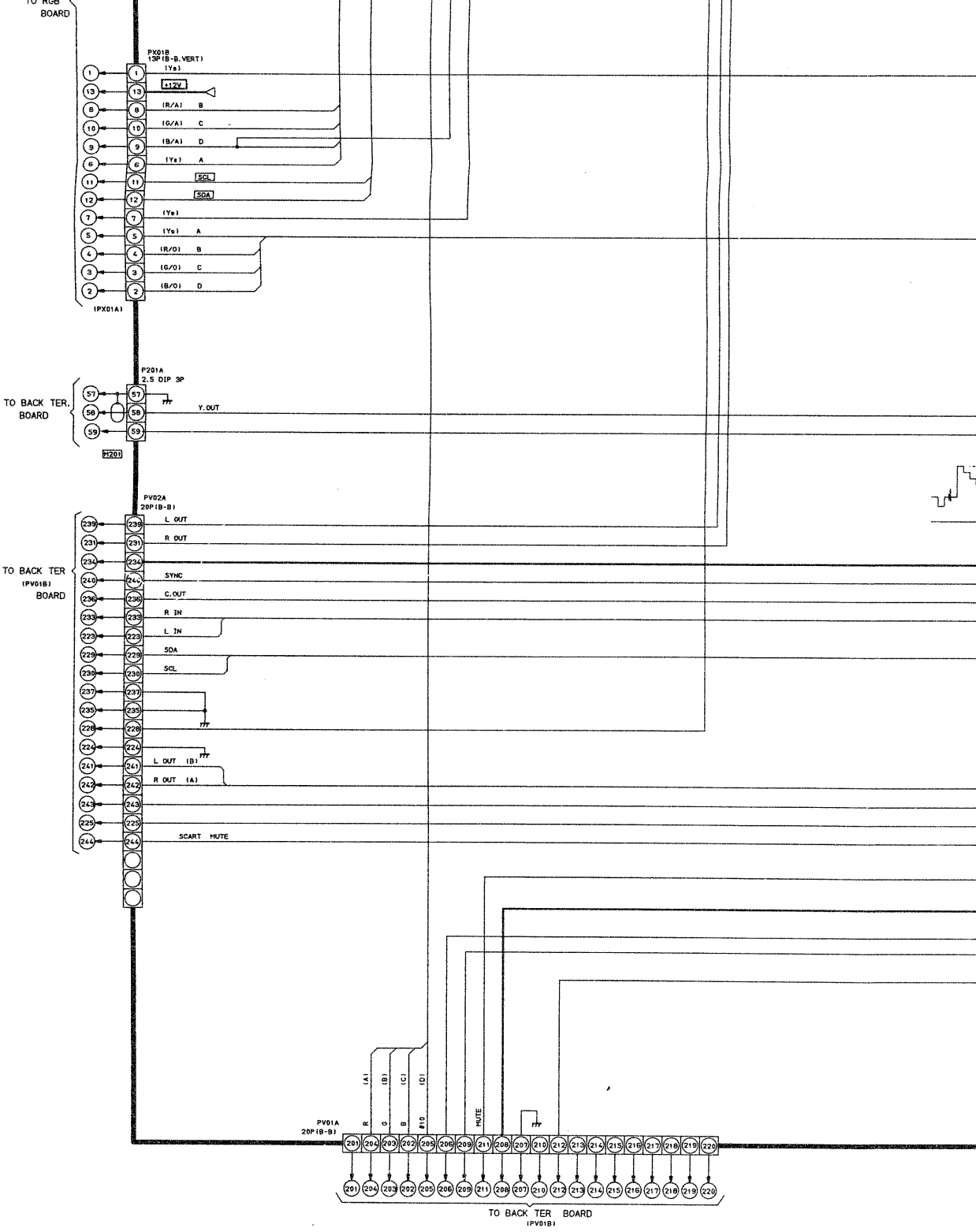
(1/3)

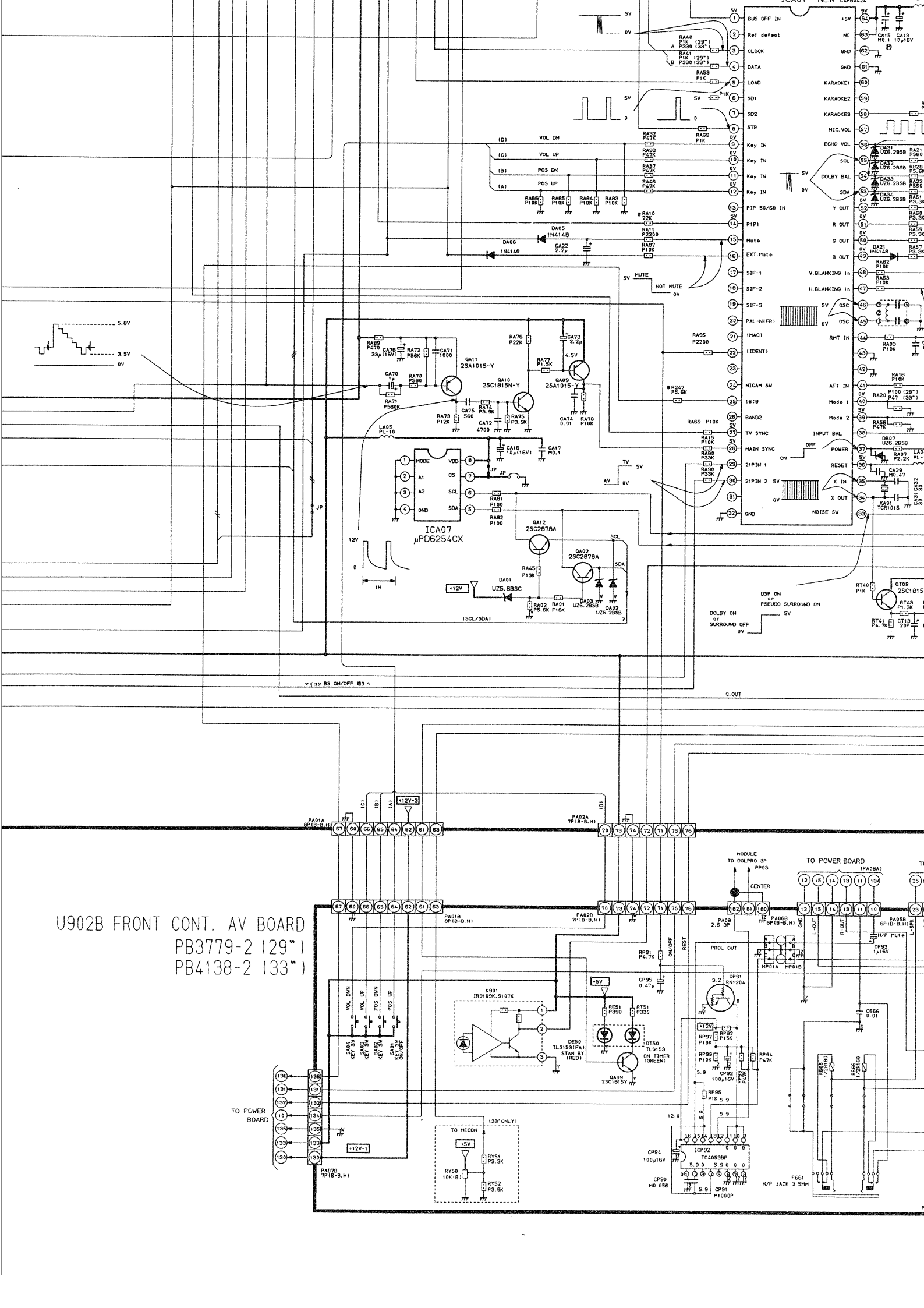

CHIP MODUL
UF01 TEXT BOARD
PB2619
CHIP MODUL
UP01 DOLBY PROLOG BOARD
PB3780
U902A MAIN BOARD PB3779-112
PB4138-113
PF01B
PF02B
PS01B
PS02B
+12V-2
+5V-2
(SCL/SDA)
+12V
+5V
1Vp-p
0.5Vp-p
TV SYNC
JP
DSP SEUDO
OFF DOLBY
ICA01 NEW CXP80424
BUS OFF IN
Ref defeat
CLOCK
DATA
LOAD
SD1
SD2
STB
KARAOKE1
KARAOKE2
KARAOKE3
MIC.VOL
ECHO VOL
DOLBY BAL
VOL DN
VOL UP
POS DN
POS UP
Key IN

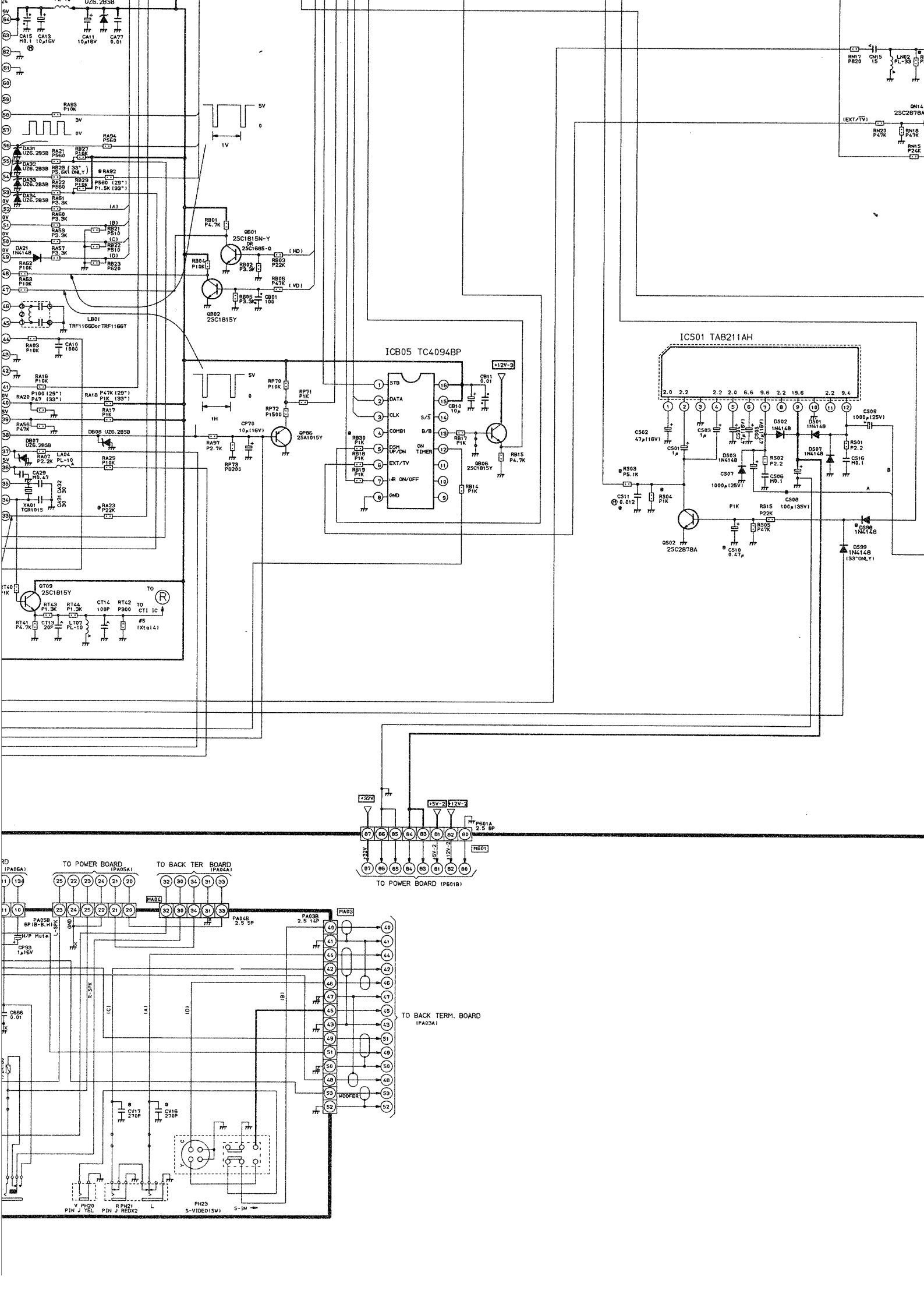
3779-1(29")
4138-1(33")

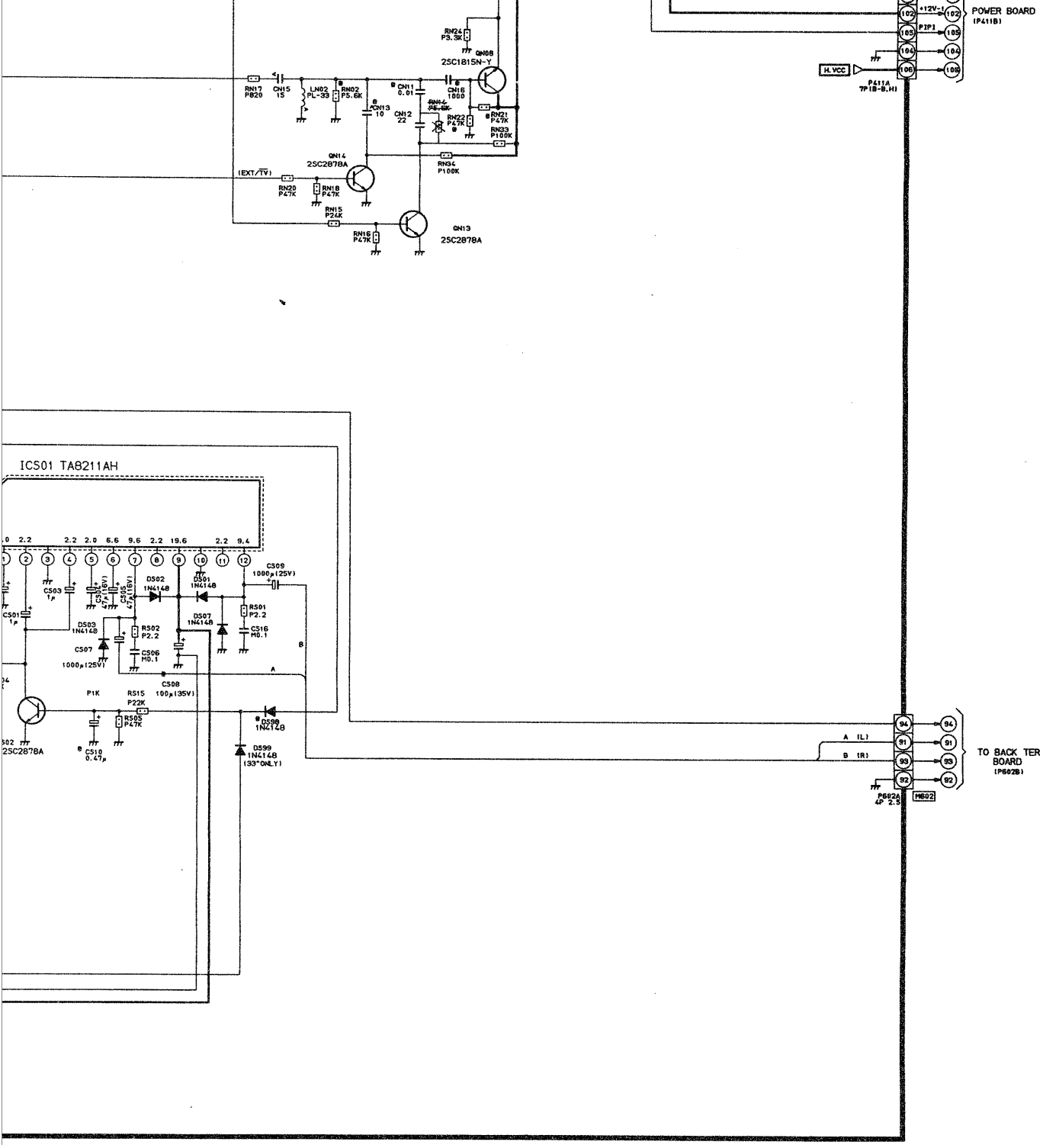



5.2Vp-p
5.2Vp-p
1.4Vp-p
+12V-1
+12V-3
H.Vcc
TO CRT/D BOARD (PS11B)
POWER BOARD (P410B)
POWER BOARD (P411B)
VIDEO AMP
TX CONT
BRT.BLK.CRAMP
SYNC SEPA
H.V I²L
FORCED STANDARD SET.
SYSTEM CONTROL SCANNING
TV/TX SW
G-Y MAT
BURST AMP
DEMO
PAL MATRIX SECAM PERMU
CHROMA AMP
IDENT
APC
CHROMA VCO
VERT
OFF MUTE
MUTE
(VD)
(HD)
(VD/HD)
(SCL/SDA)
0.3Vp-p
2SC1815N-Y
2SC2878A
TLN193


TO RGB BOARD
PX01B 13P(B-B.VERT)
(Ys)
+12V
(R/A) B
(G/A) C
(B/A) D
(Ys) A
SCL
SDA
(Ys)
(Ys) A
(R/O) B
(G/O) C
(B/O) D
(PX01A)
P201A 2.5 DIP 3P
TO BACK TER. BOARD
Y.OUT
M201
PV02A 20P(B-B)
L OUT
R OUT
TO BACK TER (PV01B) BOARD
SYNC
C.OUT
R IN
L IN
SDA
SCL
L OUT (B)
R OUT (A)
SCART MUTE
PV01A 20P(B-B)
(A)
(B)
(C)
(D)
R
G
B
MUTE
TO BACK TER BOARD (PV01B)


U902B FRONT CONT. AV BOARD
PB3779-2 (29")
PB4138-2 (33")
ICA07
μPD6254CX
BUS OFF IN
Ref defect
CLOCK
DATA
LOAD
SD1
SD2
STB
Key IN
PIP 50/60 IN
P1P1
Mute
EXT.Mute
SIF-1
SIF-2
SIF-3
PAL-NIFR
(MAC)
(IDENT)
NICAM SW
16:9
BAND2
TV SYNC
MAIN SYNC
21PIN 1
21PIN 2
GND
+5V
NC
GND
GND
KARAOKE1
KARAOKE2
KARAOKE3
MIC.VOL
ECHO VOL
SCL
DOLBY BAL
SDA
Y OUT
R OUT
G OUT
B OUT
V.BLANKING In
H.BLANKING In
OSC
OSC
RMT IN
AFT IN
Mode 1
Mode 2
INPUT BAL
POWER
RESET
X IN
X OUT
NOISE SW
VOL DN
VOL UP
POS DN
POS UP
MUTE
NOT MUTE
TO POWER BOARD
TO MICON
MODULE
TO DOLPRO 3P
CENTER
PROL OUT
REST
ON/OFF
H/P Mute
H/P JACK 3.5MM
DSP ON
or
PSEUDO SURROUND ON
DOLBY ON
or
SURROUND OFF
C.OUT


ICB05 TC4094BP
ICS01 TA8211AH
TO POWER BOARD (PA05A)
TO BACK TER BOARD (PA04A)
TO POWER BOARD (P601B)
TO BACK TERM. BOARD (PA03A)
+32V
+5V-2
+12V-2
+12V-3
WOOFER
H/P Mute
PH20 V PIN J YEL
PH21 R PIN J REDX2
PH23 S-VIDEO(SW)
S-IN
TO CTI IC


RN24 P3.3K
QN08 2SC1815N-Y
RN17 P820
CN15 15
LN02 PL-33
RN02 P5.6K
CN11 0.01
CN16 1000
CN13 10
CN12 22
RN22 P47K
RN21 P47K
RN23 P100K
QN14 2SC2878A
RN34 P100K
(EXT/TV)
RN20 P47K
RN18 P47K
RN15 P24K
RN16 P47K
QN13 2SC2878A
+12V-1
POWER BOARD (P411B)
P1P1
H.VCC
P411A 7P(B-B,HI)
ICS01 TA8211AH
2.2 2.2 2.0 6.6 9.6 2.2 19.6 2.2 9.4
CS03 1μ
CS04 47μ/16V
CS505 47μ/16V
DS01 1N4148
DS02 1N4148
CS09 1000μ(25V)
CS01 1μ
DS03 1N4148
R501 P2.2
DS07 1N4148
CS16 M0.1
R502 P2.2
CS07 1000μ(25V)
CS06 M0.1
CS08 100μ(35V)
P1K
R515 P22K
R505 P47K
DS99 1N2748
DS99 1N4148 (33"ONLY)
2SC2878A
CS10 0.47μ
A (L)
B (R)
TO BACK TER BOARD (PS02B)
P502A 4P 2.5
M502

2939DB : 3339DB

SCHEMATIC DIAGRAM (2/3)

IMPORTANT SAFETY NOTICE

Component marked with the International Hazard Symbol must, if changed, be replaced by an approved type and must be mounted as the original. This will ensure that the safety standards adhered to during manufacture will be maintained following any servicing procedure.

OBSERVATION OF VOLTAGES AND WAVEFORMS

1. Voltage readings were obtained using a high impedance digital voltmeter.
2. (⊣) or ground lead of instruments should be connected to the ground marked (⊥) in the schematic on checking Non-isolated circuit surrounded by mark but should be connected to the points marked (⏚) on checking isolated circuit.
3. The voltage readings may vary as much as ±20%.
4. Check that the Tuning, A.F.C., Brightness, Contrast and Colour controls are adjusted for the best picture, making sure that the Contrast, Brightness and Colour controls are set near to their mid-positions.
5. The waveforms were taken using a standard colour bar signal and were observed using a wide band oscilloscope via a low capacity probe.

NOTES:

1. This circuit diagram is subject to change without notice.

EXPRESSION

VALUE OF RESISTOR, CAPACITOR and INDUCTOR

1. Resistance is shown in ohm, k=1,000, M=1,000,000.
2. Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in μF and the values more than 1 in μF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μH, and the values less than 1 in H.

GROUNDING SYMBOL

1. ⊥ Non isolated ground, ⏚ Isolated ground

RESISTORS

Prefixed to values:

TYPE	MARK
Carbon Comp.	S
Oxide Metal Film	R
Ins. Carbon Film	P
Wire Wound	W
Cement covered W.W.	NO MARK
Fusible Res.	FR

Suffixes to values:

TOLERANCE	MARK
±1%	(F)
±2%	(G)

Suffixes to VR values:

LAW	MARK
Linear	(B)
"C" Curve Characteristic	(C)

Rating Markings:

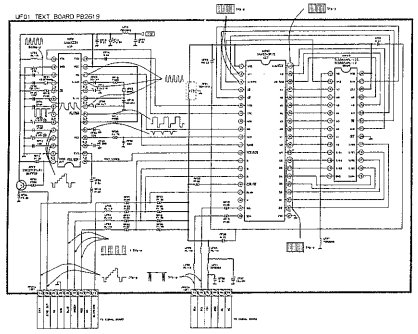
WATTAGE	MARK
1/6W	
1/4W	
1/2W	
1W	
2W	

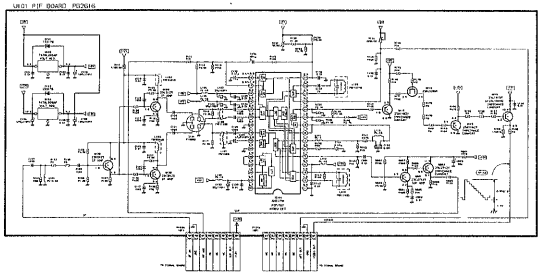
WATTAGE	MARK
3W	3
5W	5
10W	10
15W	15
20W	20
25W	25

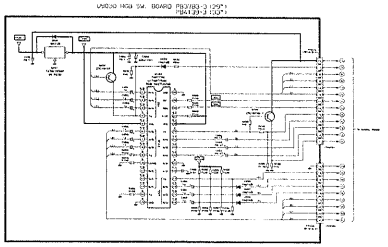
CAPACITORS

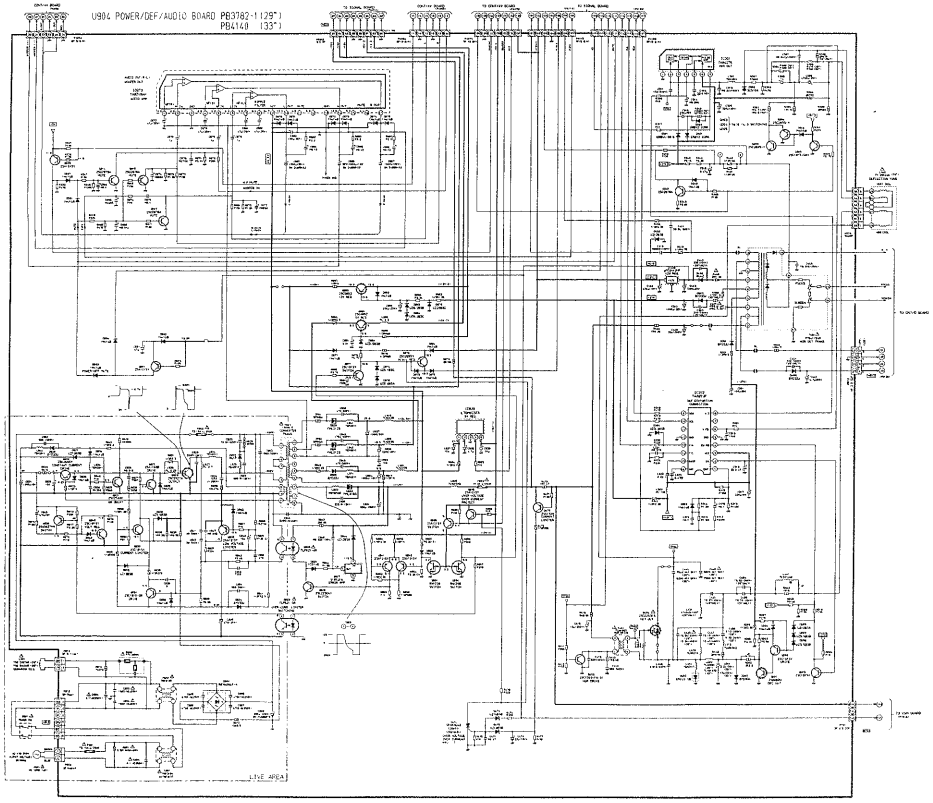
Rating Markings:

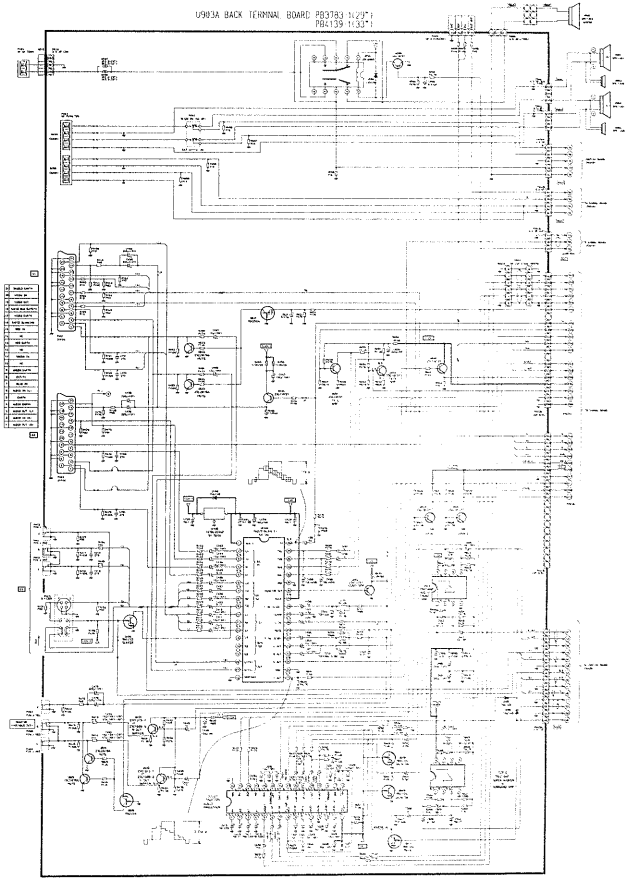
Type	Mark
Ceramic Disc 50V Only	⊣⊢
Electrolytic	⊣⊢
Electrolytic Non-Polar	⊣⊢
Variable Capacitor	⊣⊢
Other	⊣⊢











2939DB : 3339DB

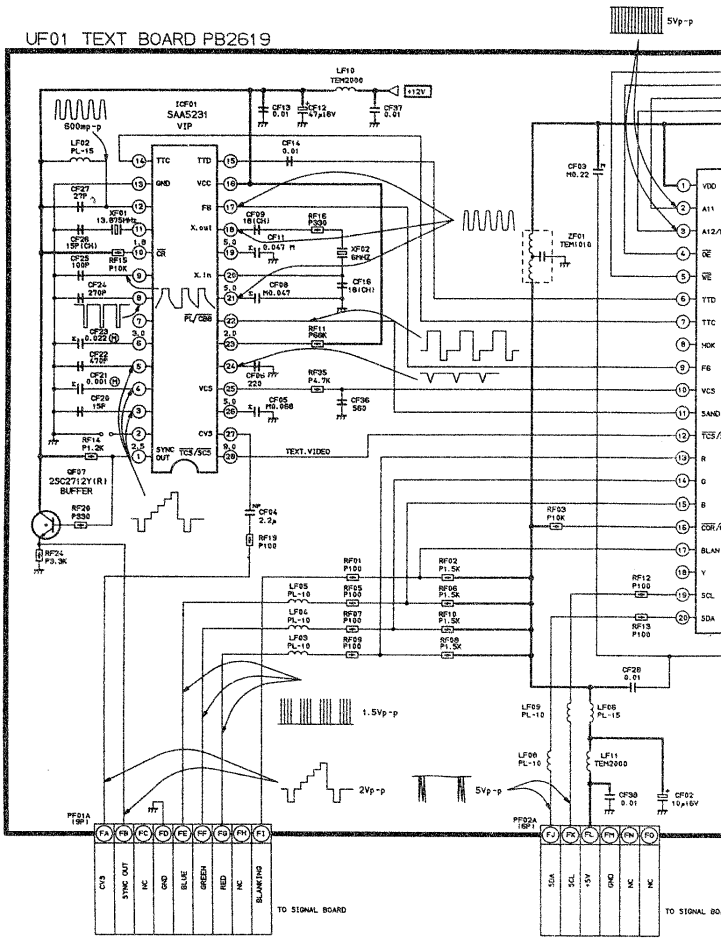
SCHEMATIC DIAGRAM (2/3)

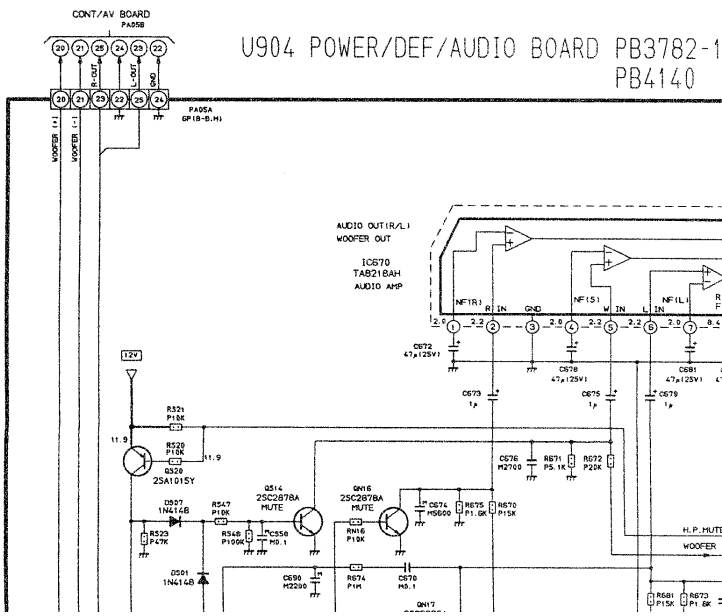
IMPORTANT SAFETY NOTICE

Component marked with the International Hazard Symbol
approved type and must be mounted as the original. This v
adhered to during manufacture will be maintained followi

OBSERVATION OF VOLTAGES AND WAVEFORMS

1. Voltage readings were obtained using a high impedar
2. (—) or ground lead of instruments should be connec
shematic on checking Non-isolated circuit surround
to the points marked (⏚) on checking isolated circ
3. The voltage readings may vary as much as ±20%.
4. Check that the Tuning, A.F.C., Brightness, Contrast
the best picture, making sure that the Contrast,Br
near to their mid-positions.
5. The waveforms were taken using a standard colour
wide band oscilloscope via a low capacity probe.





Hazard Symbol must, if changed, be replaced by an original. This will ensure that the safety standards ntained following any servicing procedure.

NAVEFORMS

a high impedance digital voltmeter.
ould be connected to the ground marked (⊥) in the ircuit surrounded by mark but should be connected ing isolated circuit.
h as ±20%.
tness, Contrast and Colour controls are adjusted for he Contrast,Brightness and Colour controls are set

tandard colour bar signal and were observed using a city probe.

NOTES:

1. This circuit diagram is subject to change without notice.

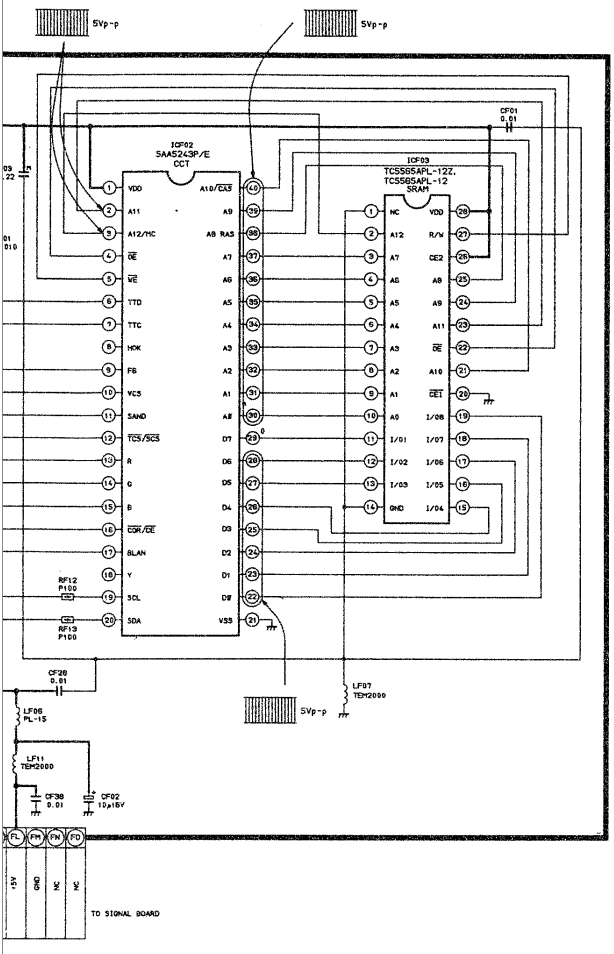
EXPRESSION

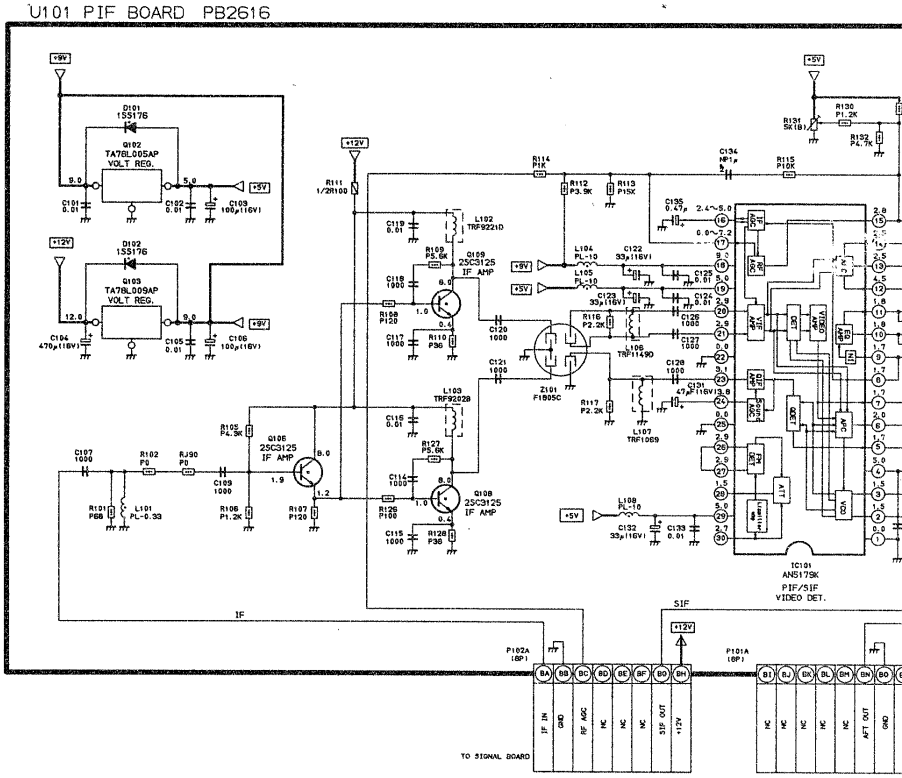
VALUE OF RESISTOR, CAPACITOR and INDUCTOR

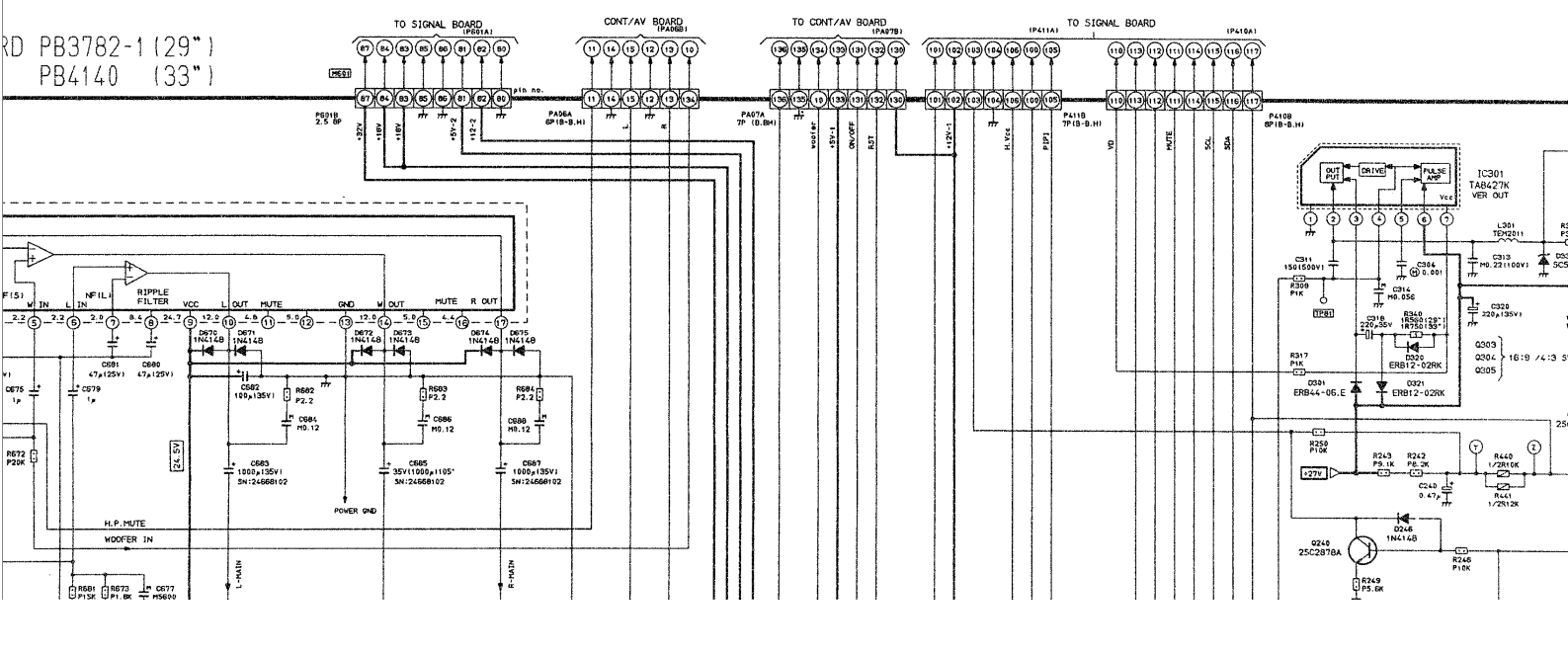
1. Resistance is shown in ohm, k=1,000, M=1,000,000.
2. Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in μF and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μH, and the values less than 1 in H.

GROUNDING SYMBOL

1. ⊥: Non isolated ground, ⏚ : Isolated ground.







RESISTORS

Prefixed to values:

TYPE	MARK
Carbon Comp.	S
Oxide Metal Film	R
Ins. Carbon Film	P
Wire Wound	W
Cement covered W.W.	NO MARK
Fusible Res.	FR

Suffixes to values:

TOLERANCE	MARK
±1%	(F)
±2%	(G)

Suffixes to VR values:

LAW	MARK
Linear	(B)
'C' Curve Characteristic	(C)

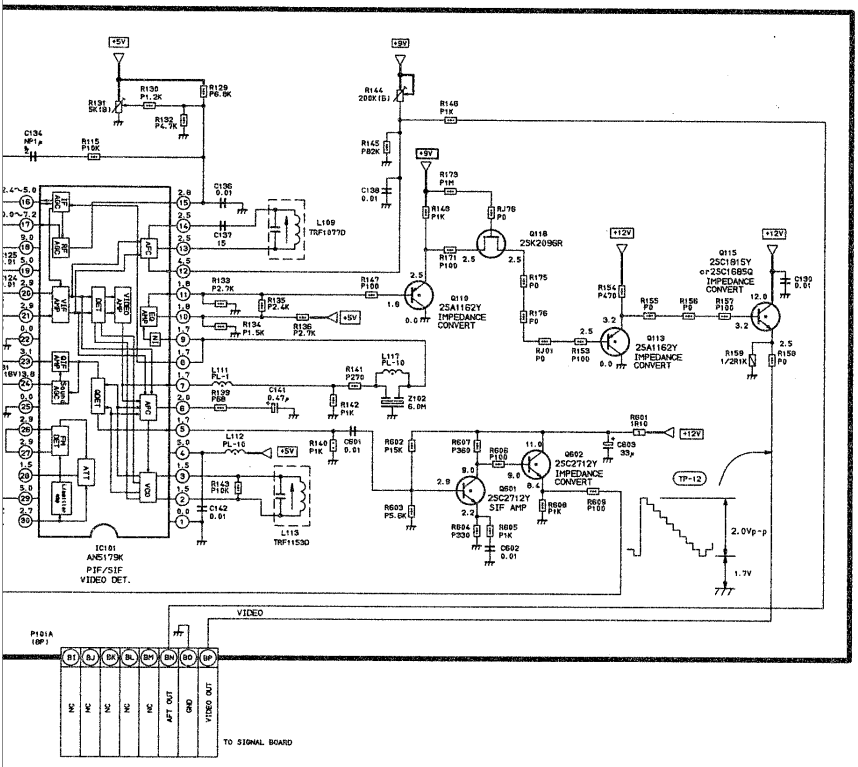
Rating Markings:

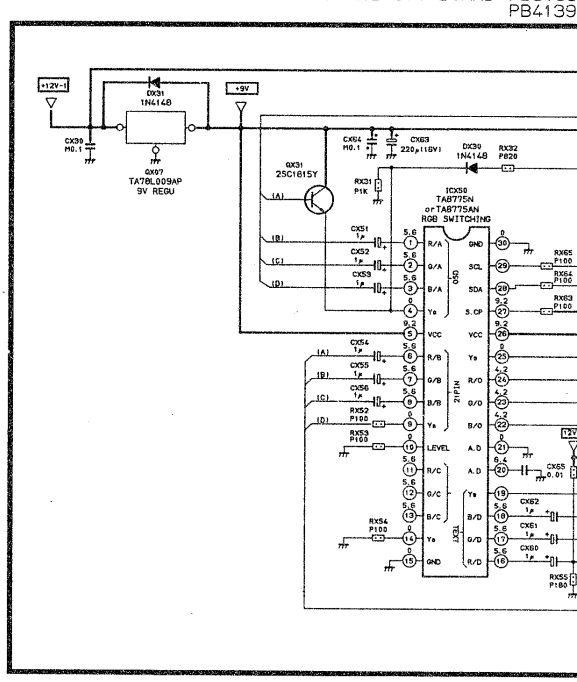
WATTAGE	MAR
1/6W	
1/4W	
1/2W	
1W	
2W	

e expressed in

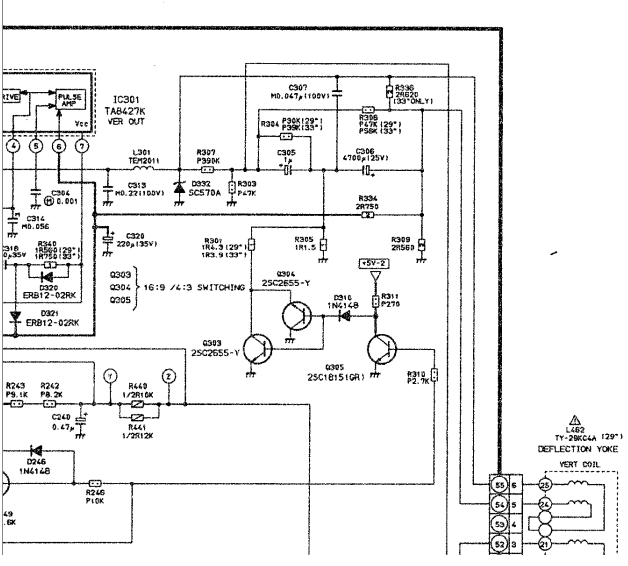
e expressed in

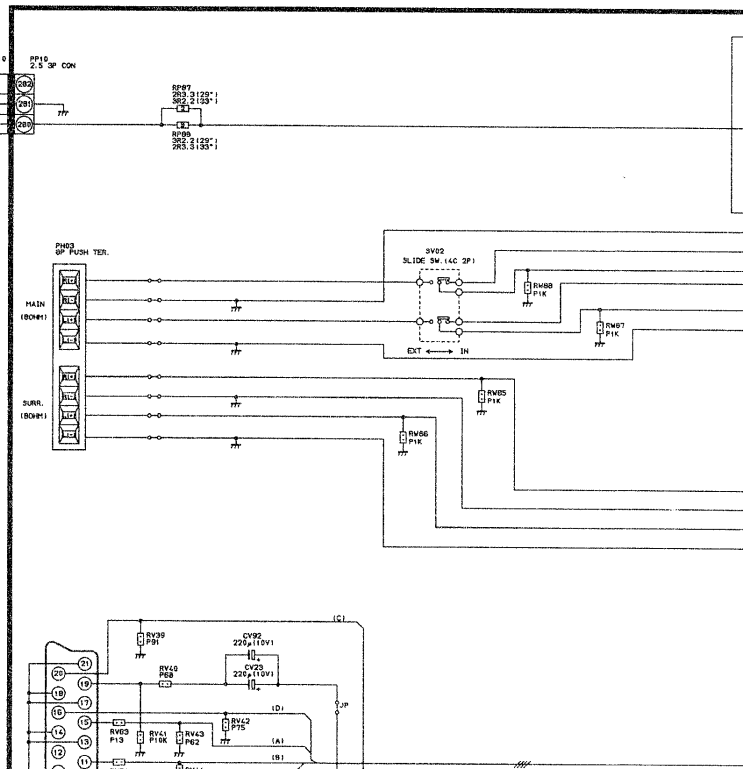
U903D RGB SW. BOARD PB3783
PB4139





U903A BACK TERMNAL BO





CAPACITORS

Rating Markings:

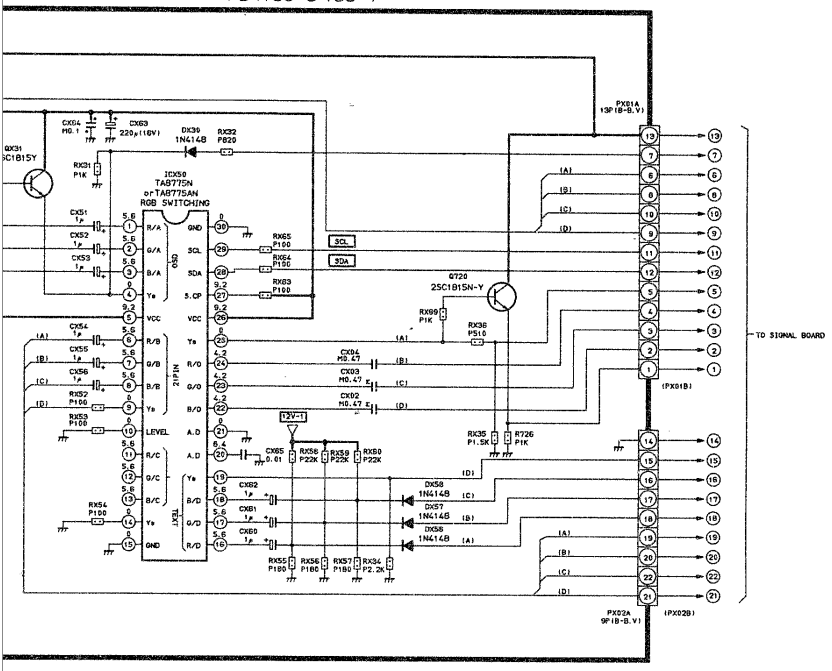
Type	Mark
Ceramic Disc 50V Only	
Electrolytic	
Electrolytic Non-Polar	
Variable Capacitor	
Other	

Rating Markings:

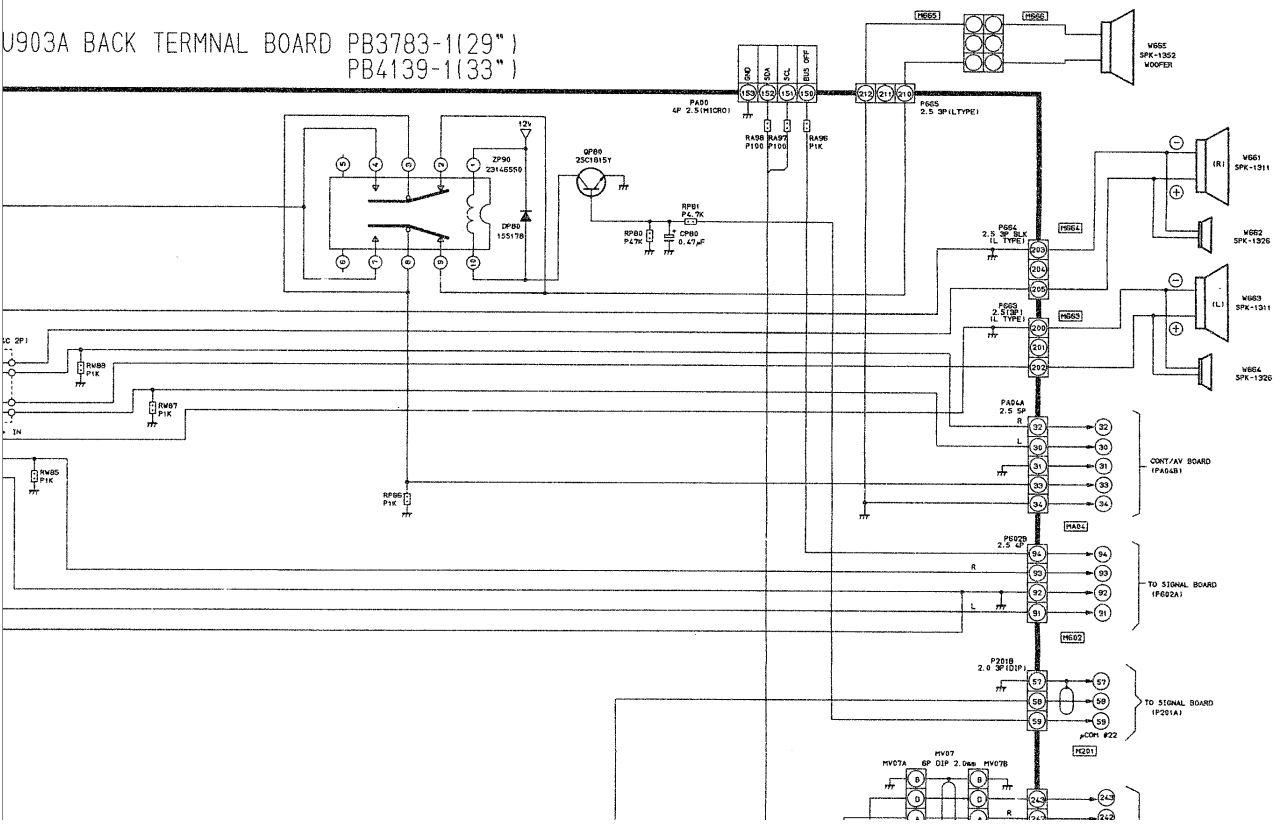
WATTAGE	MARK
1/6W	
1/4W	
1/2W	
1W	1
2W	2

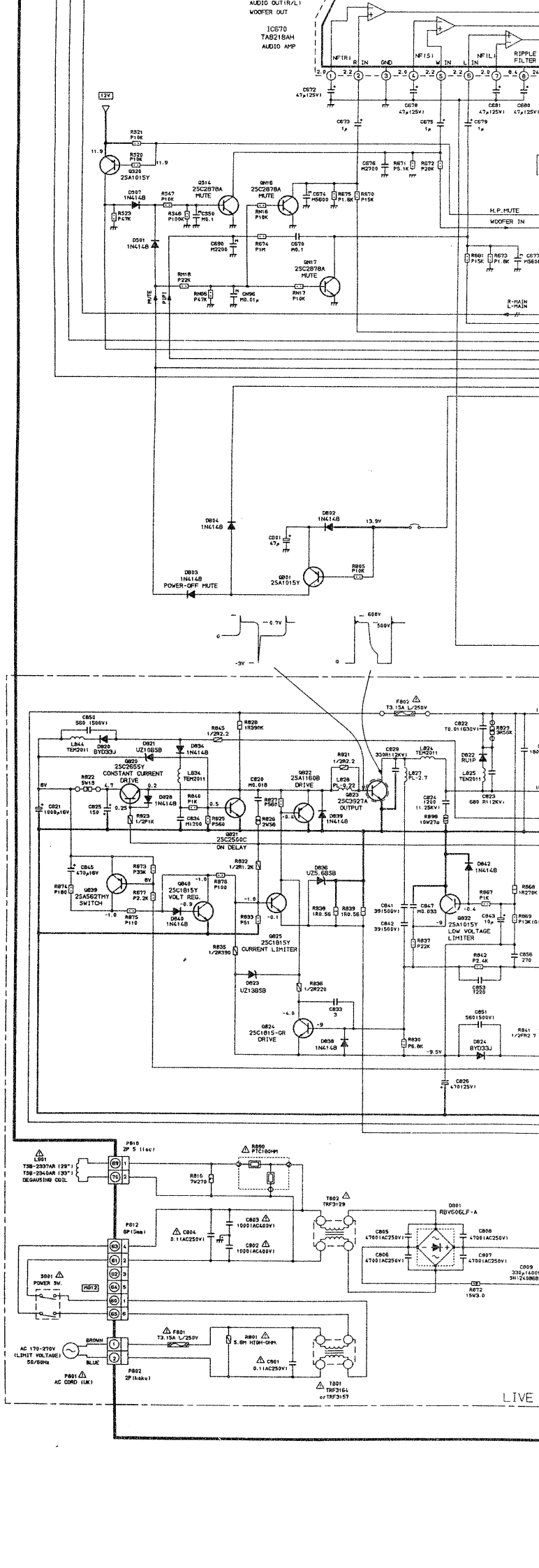
WATTAGE	MARK
3W	3
5W	5
10W	10
15W	15
20W	20
25W	25

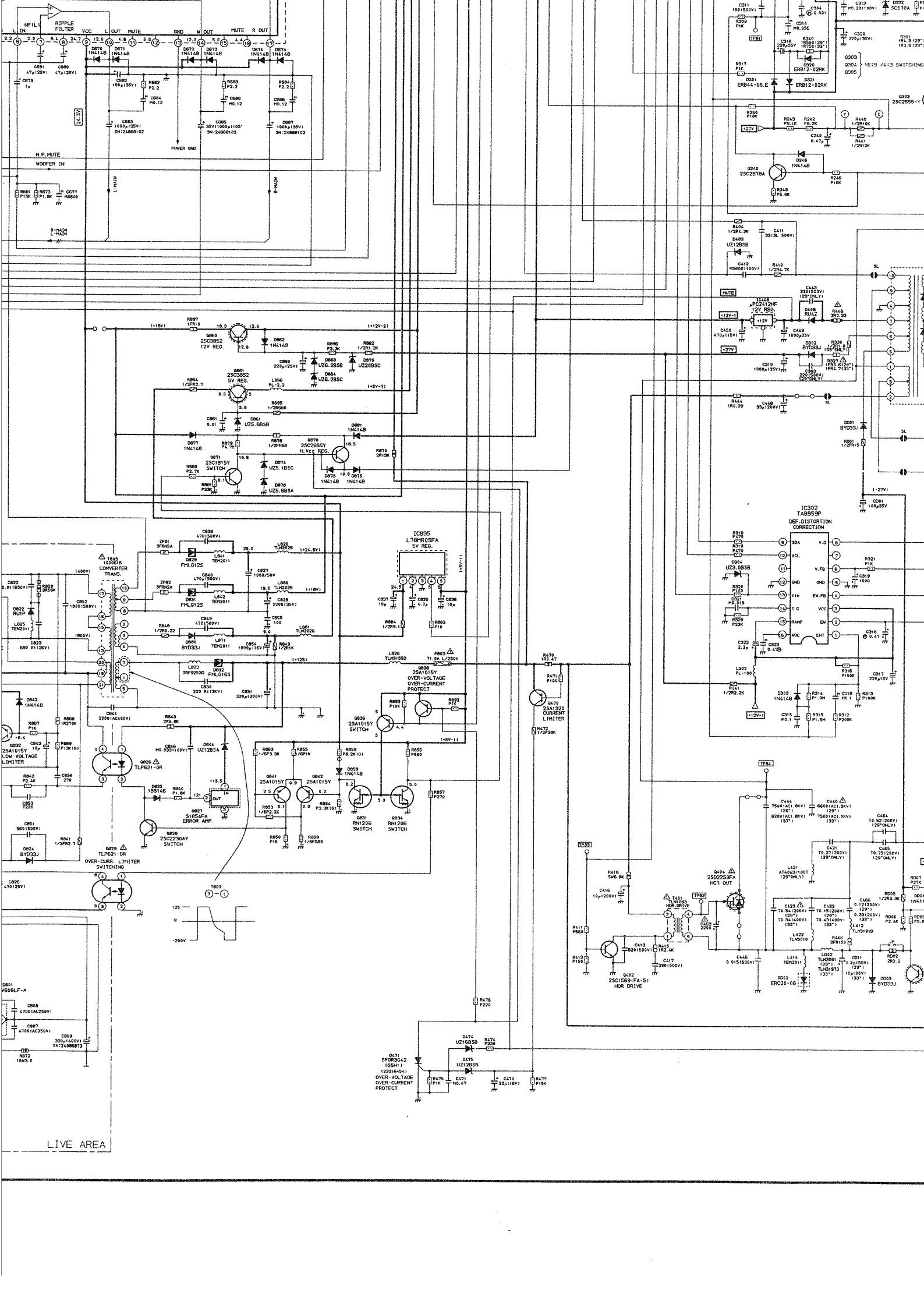
U903D RGB SW. BOARD PB3783-3(29")
PB4139-3(33")

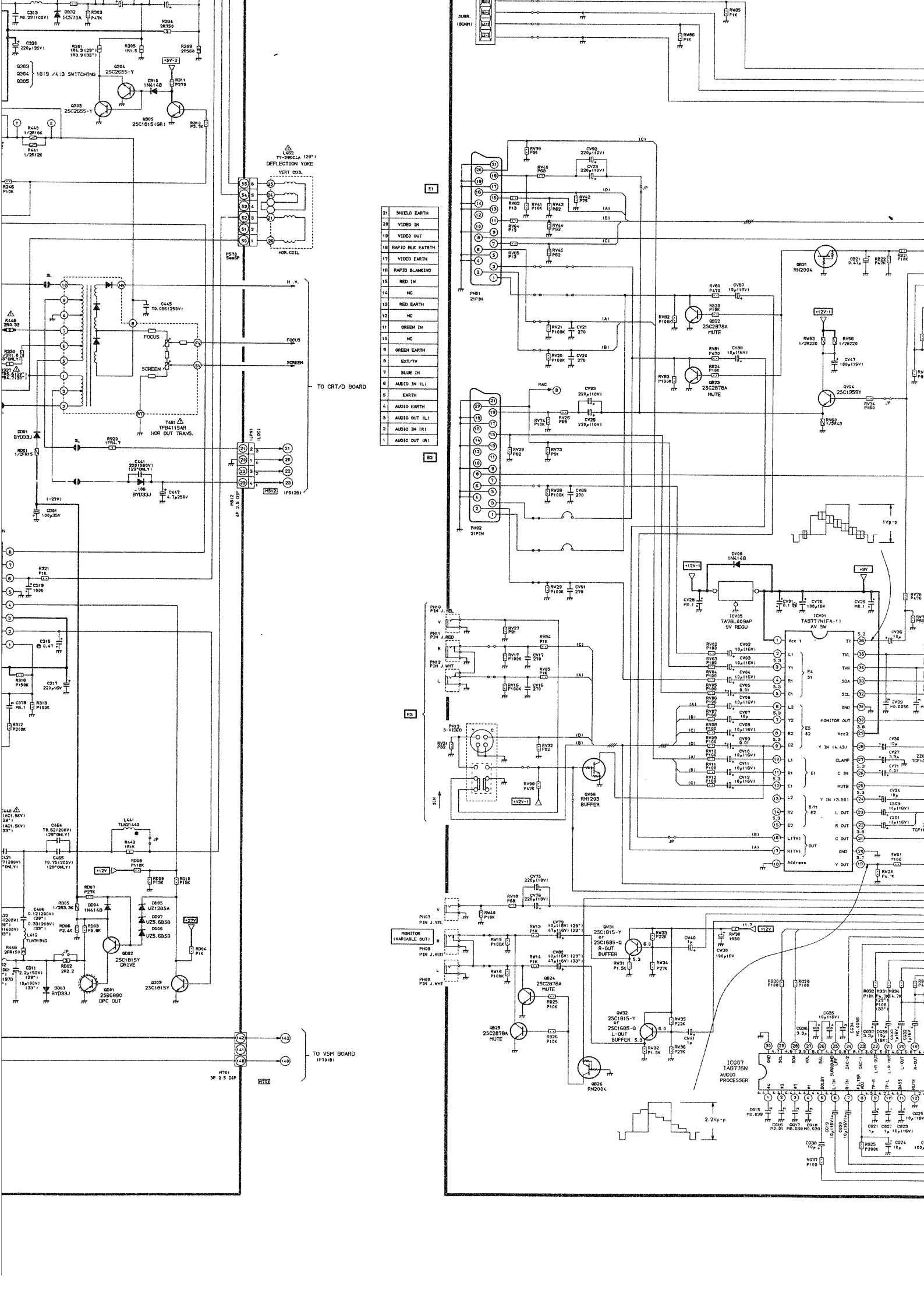


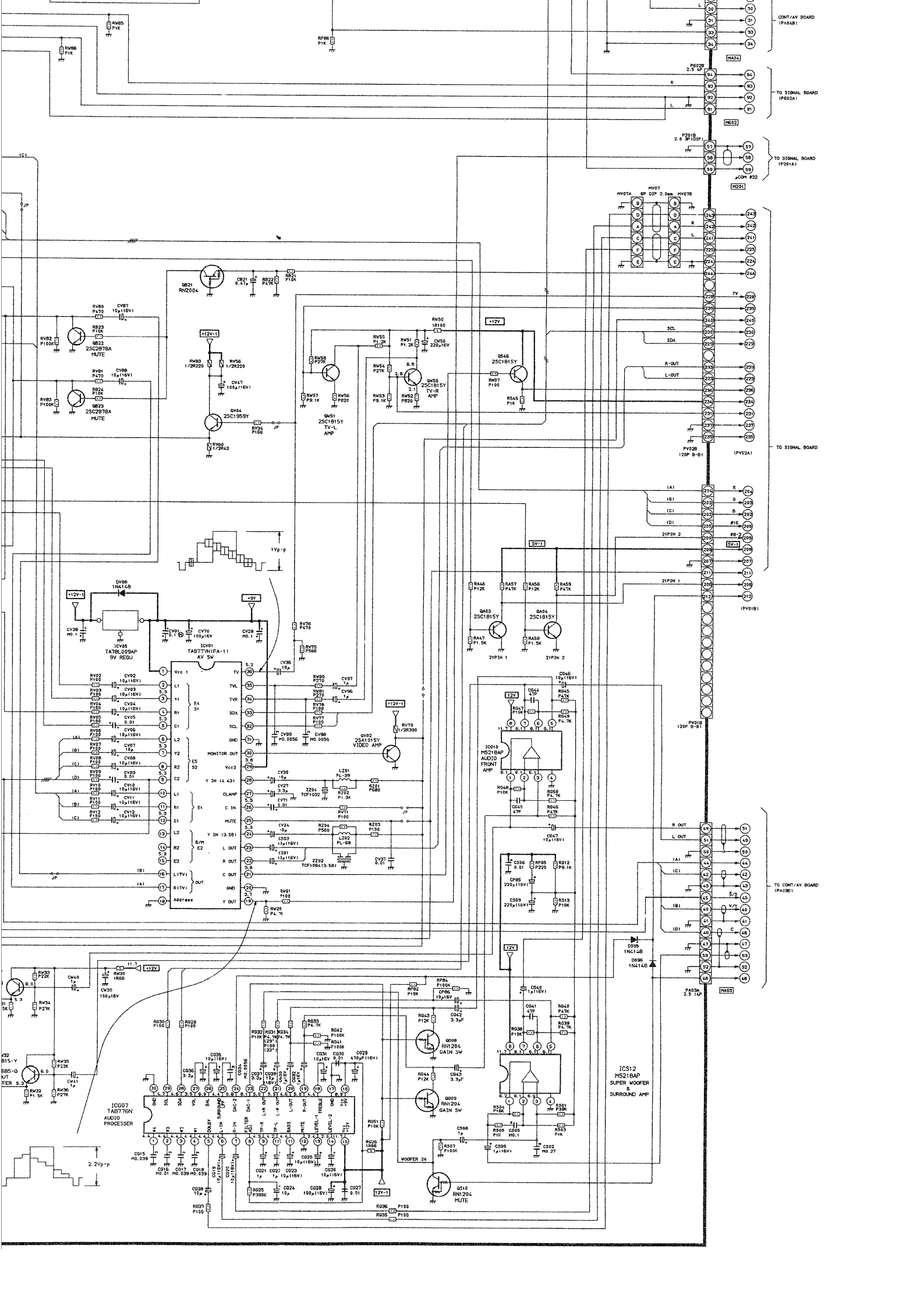
U903A BACK TERMNAL BOARD PB3783-1(29")
PB4139-1(33")




AUDIO OUT(R/L)
WOOFER OUT
IC570
TA8218AH
AUDIO AMP
NFTR
R IN
GND
NFSI
W IN
L IN
NFLI
RIPPLE FILTER
12V
H.P.MUTE
WOOFER IN
R-MAIN
L-MAIN
POWER-OFF MUTE
CONSTANT CURRENT DRIVE
ON DELAY
VOLT REG.
SWITCH
CURRENT LIMITER
LOW VOLTAGE LIMITER
OUTPUT
DEGAUSSING COIL
POWER SW.
AC CORD (UK)
LIVE

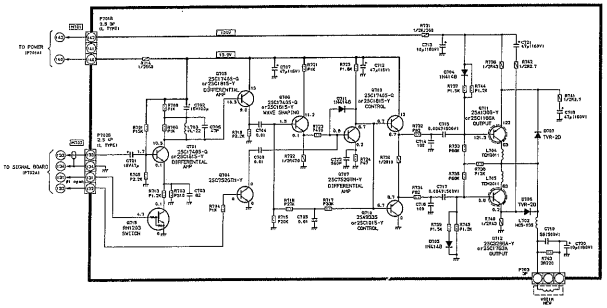

RIPPLE FILTER
L IN
L OUT
MUTE
GND
W OUT
R OUT
POWER GND
H.P. MUTE
WOOFER IN
L-MAIN
R-MAIN
IC835 L78MR05FA 5V REG.
IC392 TA8859F DEF. DISTORTION CORRECTION
IC406 μPC2412HF 12V REG.
Q836 2SA1015Y SWITCH
Q838 2SA1015Y OVER-VOLTAGE OVER-CURRENT PROTECT
Q479 2SA1320 CURRENT LIMITER
Q826 TLP621-GR
Q827 S1054FA ERROR AMP.
Q828 2SC2230AY SWITCH
Q829 TLP621-GR OVER-CURR. LIMITER SWITCHING
Q831 RN1206 SWITCH
Q834 RN1206 SWITCH
Q404 2SD2253FA HOR OUT
Q482 2SC1569(FA-S) HOR DRIVE
T803 CONVERTER TRANS.
T401 TLN1083 HOR DRIVE
D471 SFOR3642 (G5H1) OVER-VOLTAGE OVER-CURRENT PROTECT
LIVE AREA


E1
21 SHIELD EARTH
20 VIDEO IN
19 VIDEO OUT
18 RAPID BLK EATRTH
17 VIDEO EARTH
16 RAPID BLANKING
15 RED IN
14 NC
13 RED EARTH
12 NC
11 GREEN IN
10 NC
9 GREEN EARTH
8 EXT/TV
7 BLUE IN
6 AUDIO IN (L)
5 EARTH
4 AUDIO EARTH
3 AUDIO OUT (L)
2 AUDIO IN (R)
1 AUDIO OUT (R)
E2
E3
TO CRT/D BOARD
TO VSM BOARD
H.V.
FOCUS
SCREEN
DEFLECTION YOKE
VERT COIL
HOR.COIL
HOR OUT TRANS.
16:9 / 4:3 SWITCHING
DPC OUT
2SC1815 DRIVE
AUDIO PROCESSOR
TA8776N
TA8777N/NIFA-11
AV SW
TA78L009AP
9V REGU
MONITOR (VARIABLE OUT)
2.2Vp-p
1Vp-p

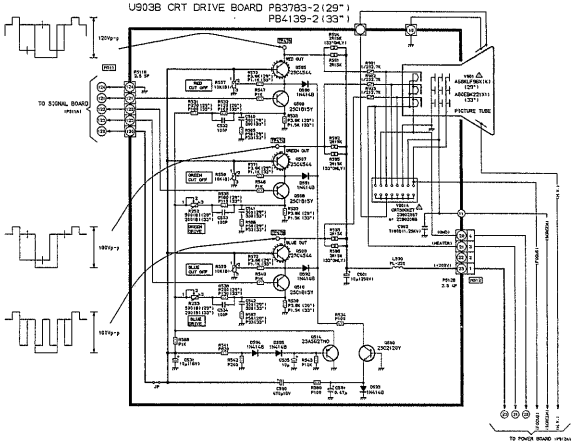

TO CONT/AV BOARD (PA04B)
TO SIGNAL BOARD (PE02A)
TO SIGNAL BOARD (PF201A)
TO SIGNAL BOARD (PV02A)
TO CONT/AV BOARD (PA03D)
ICG07 TA8776N AUDIO PROCESSER
IC010 MS218AP AUDIO FRONT AMP
IC012 MS218AP SUPER WOOFER & SURROUND AMP
IC001 TA8777N/NIFA-11 AV SW
IC005 T47BL009AP 9V REGU
Q821 2SC2878A MUTE
Q822 2SC2878A MUTE
Q823 2SC2878A MUTE
Q824 2SC1959Y
Q825 2SC1815Y TV-L AMP
Q826 2SC1815Y TV-R AMP
Q827 2SA1015Y VIDEO AMP
Q828 2SC1815Y
Q829 2SC1815Y
Q008 RN1204 GAIN SW
Q009 RN1204 GAIN SW
Q510 RN1204 MUTE
D001 1N4148
D596 1N4148
D599 1N4148
+12V
+9V
5V-1
12V
1Vp-p
2.2Vp-p
WOOFER IN

2939DB : 3339DB SCHEMATIC DIAGRAM (3/3)

U903C DSM BOARD PB3783-3 (29")
PB4139-3 (33")

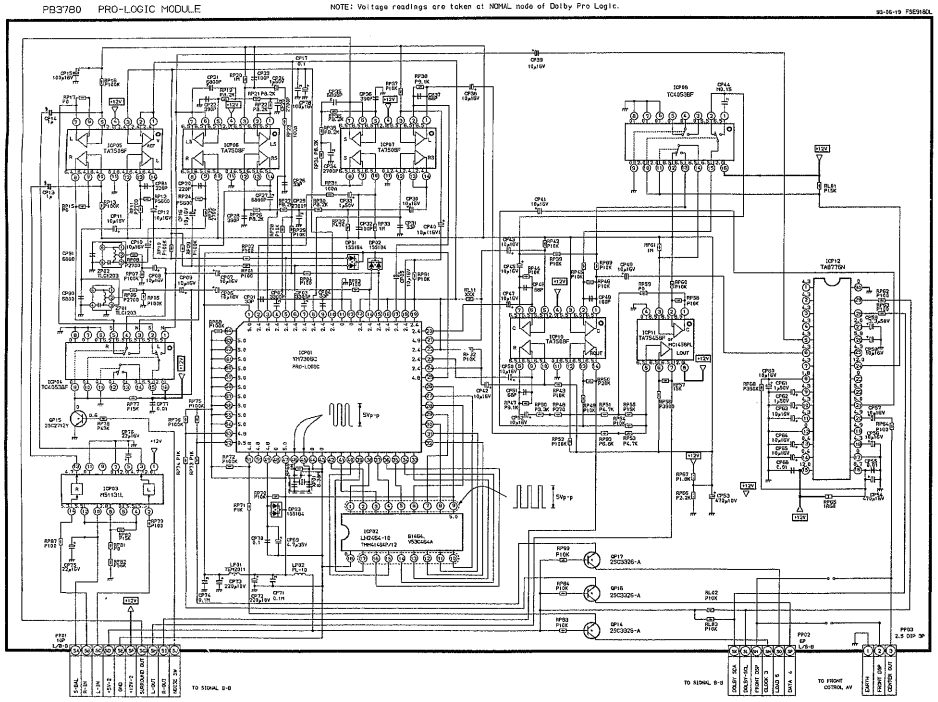


U903B CRT DRIVE BOARD PB3783-2(29")
PB4139-2(33")

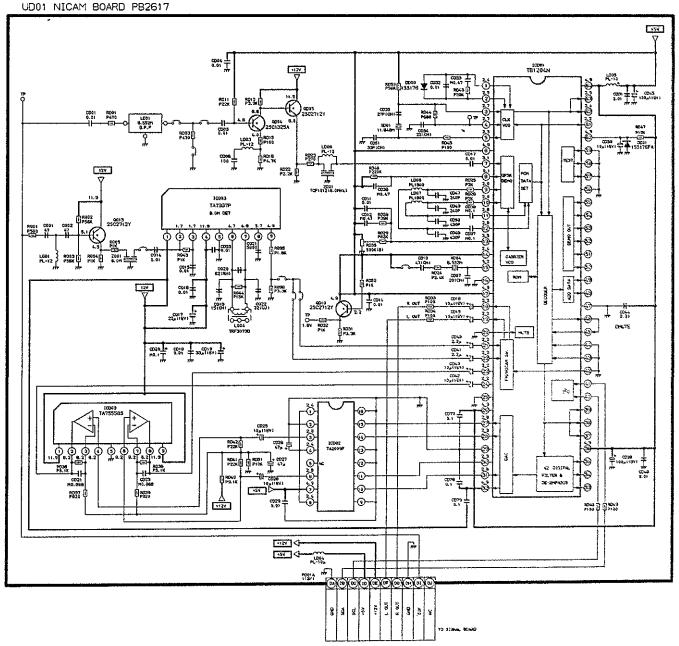


PB3780 PRO-LOGIC MODULE

NOTE: Voltage readings are taken at NORMAL mode of Dolby Pro Logic.

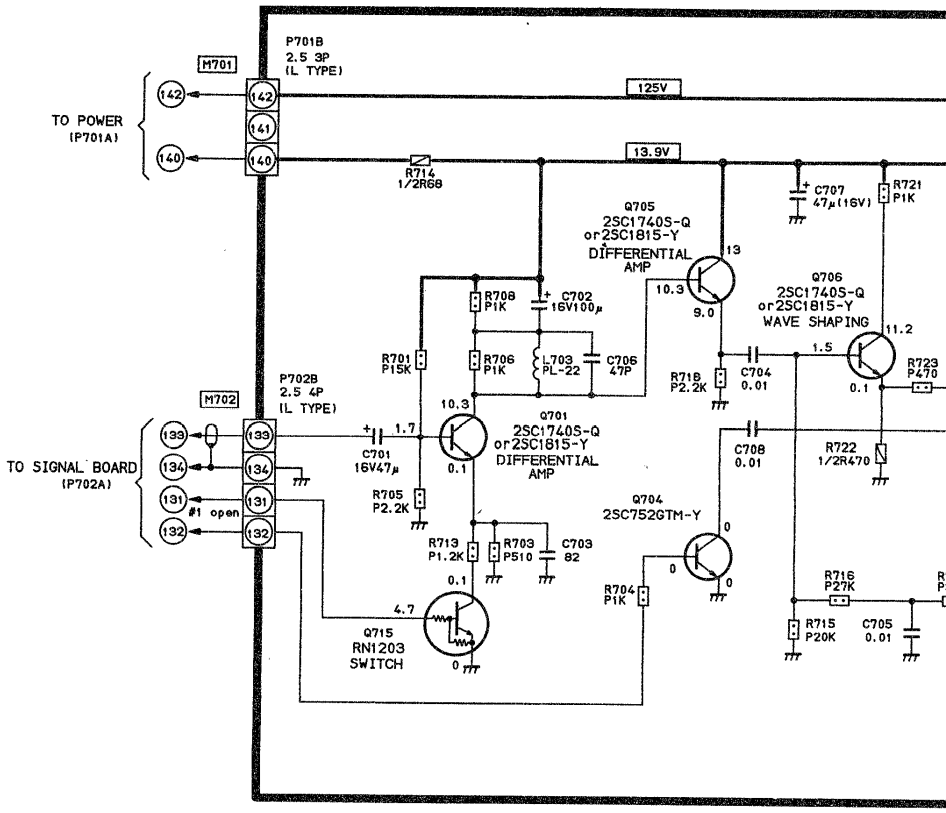


UD01 NICAM BOARD PB2617



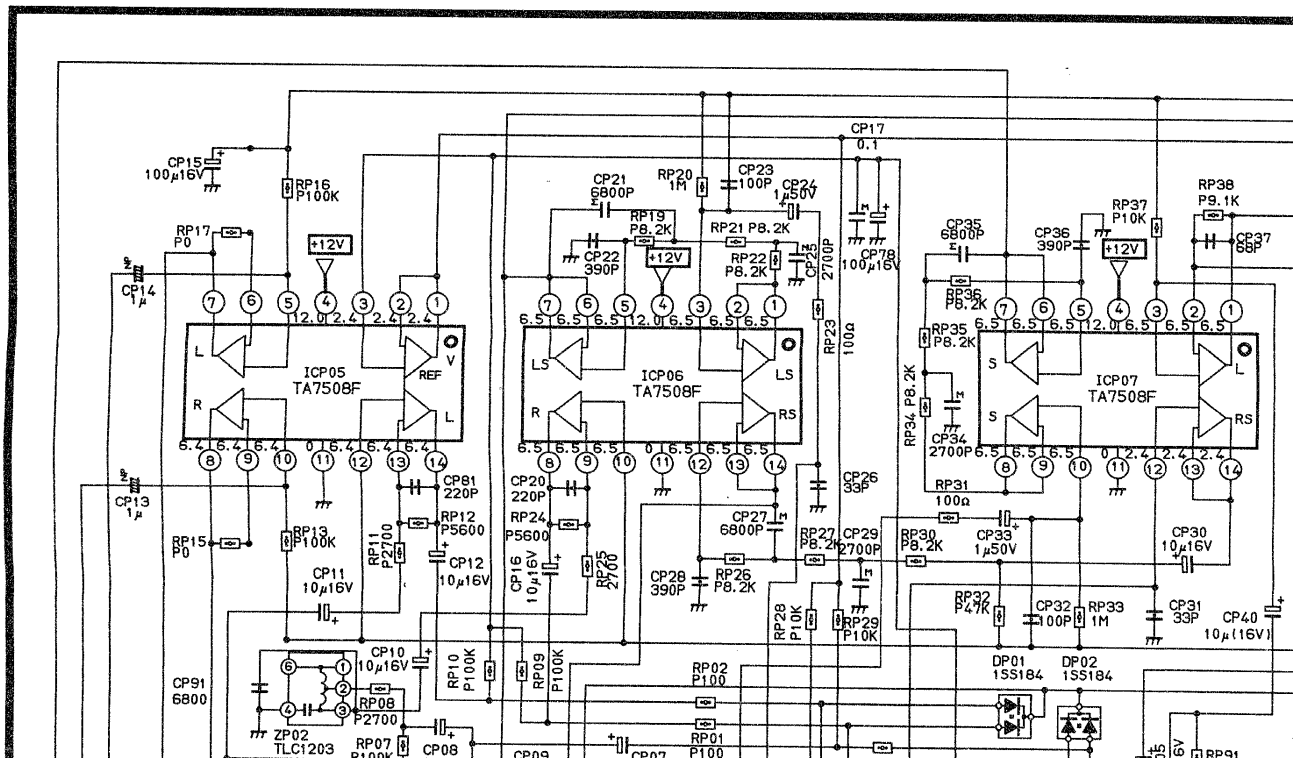
2939DB : 3339DB

SCHEMATIC DIAG



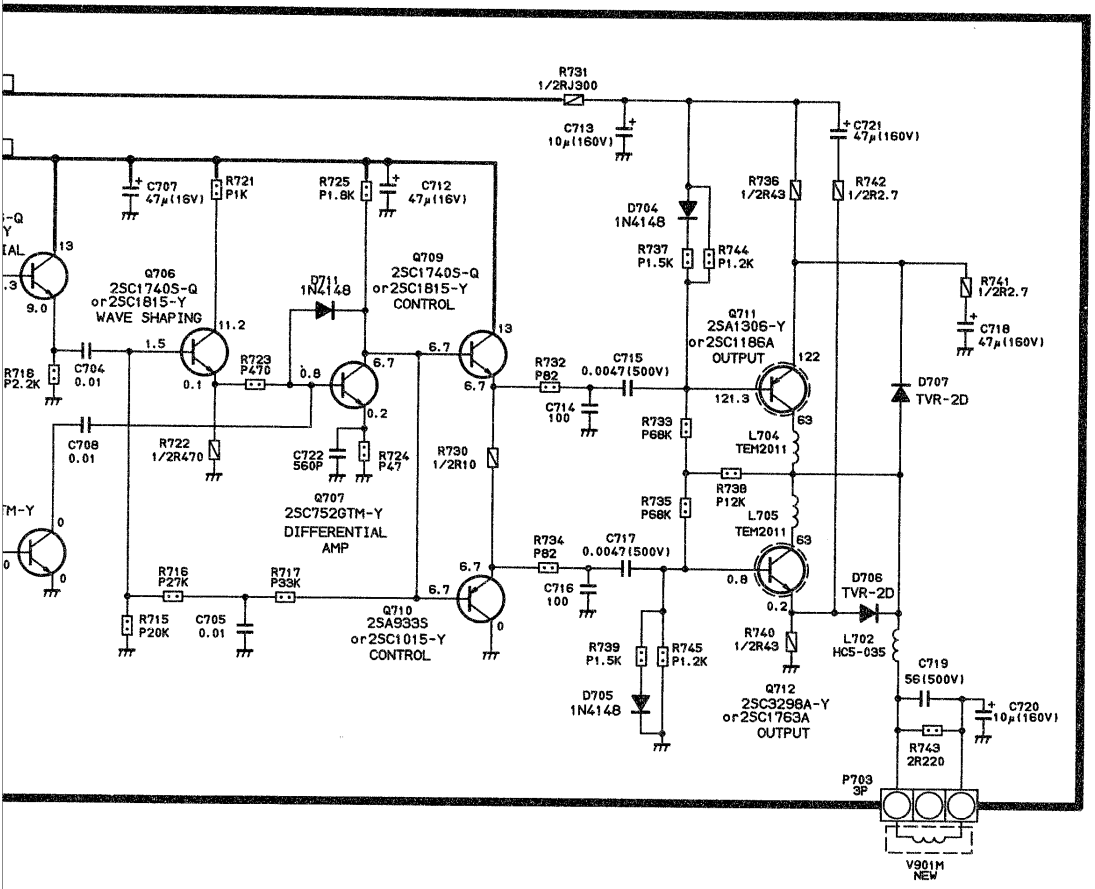
PB3780 PRO-LOGIC MODULE

NOTE: Voltage readings are



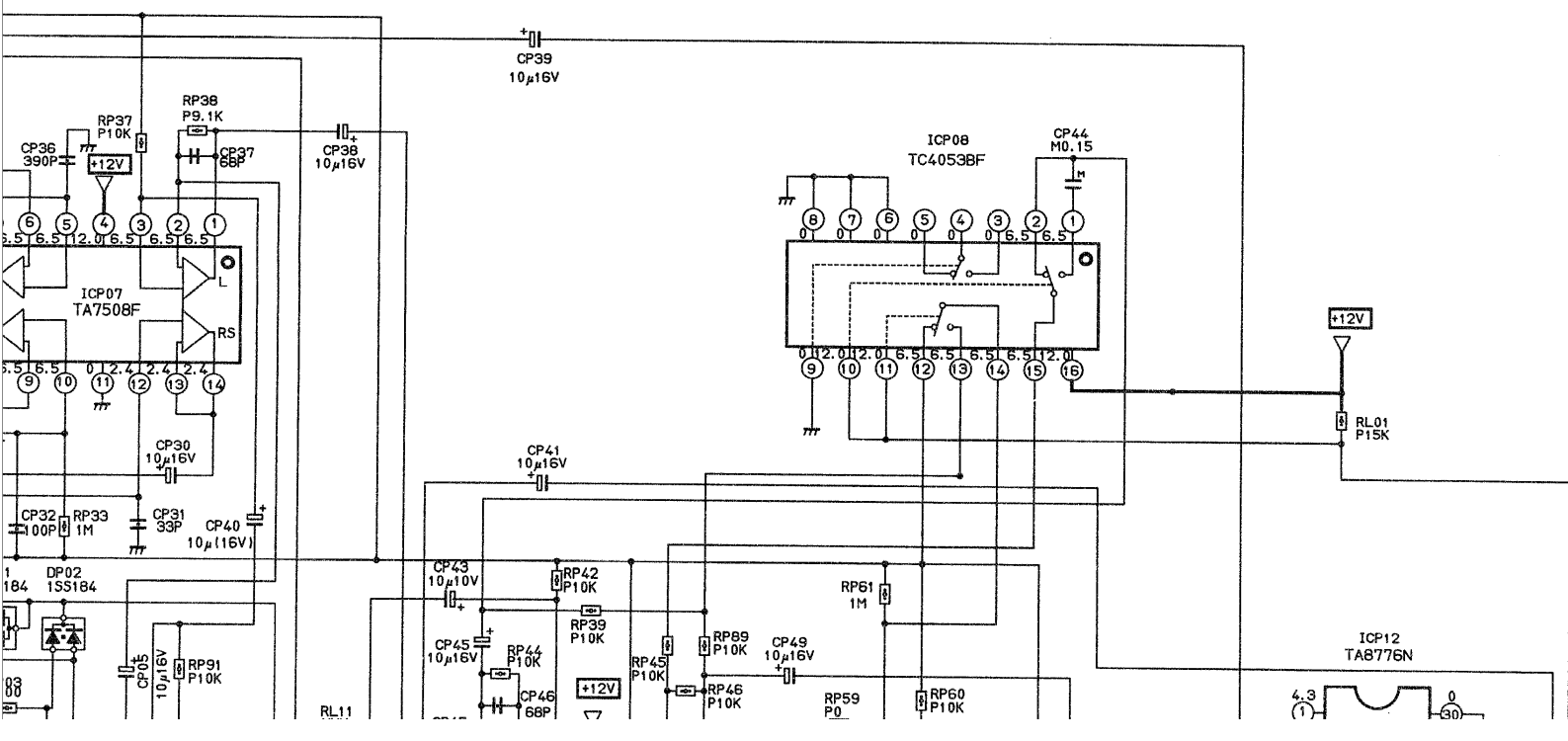
EMATIC DIAGRAM (3/3)

U903C DSM BOARD PB3783-3 (29")
PB4139-3 (33")

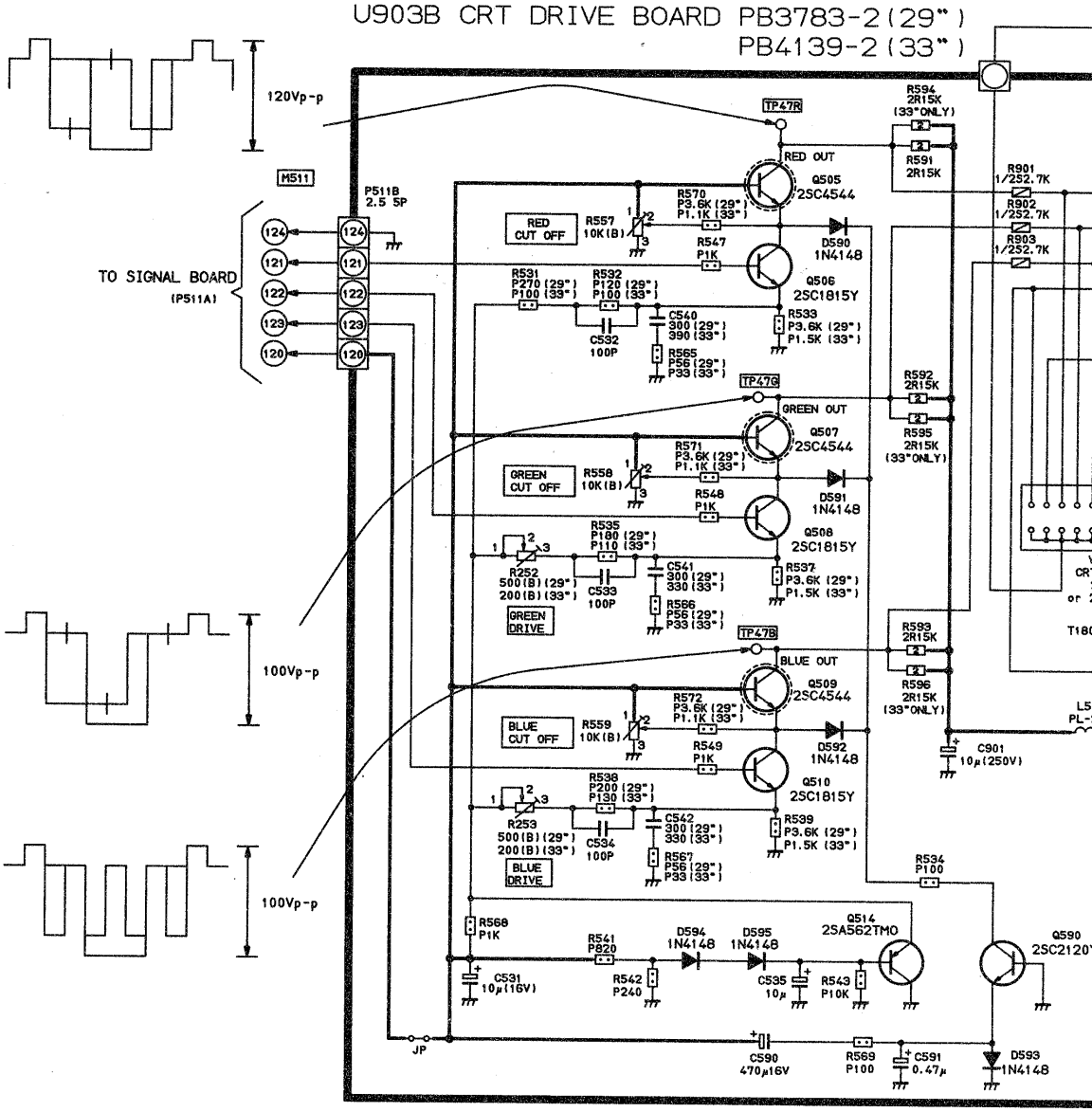


Voltage readings are taken at NOMAL mode of Dolby Pro Logic.

93-06-1

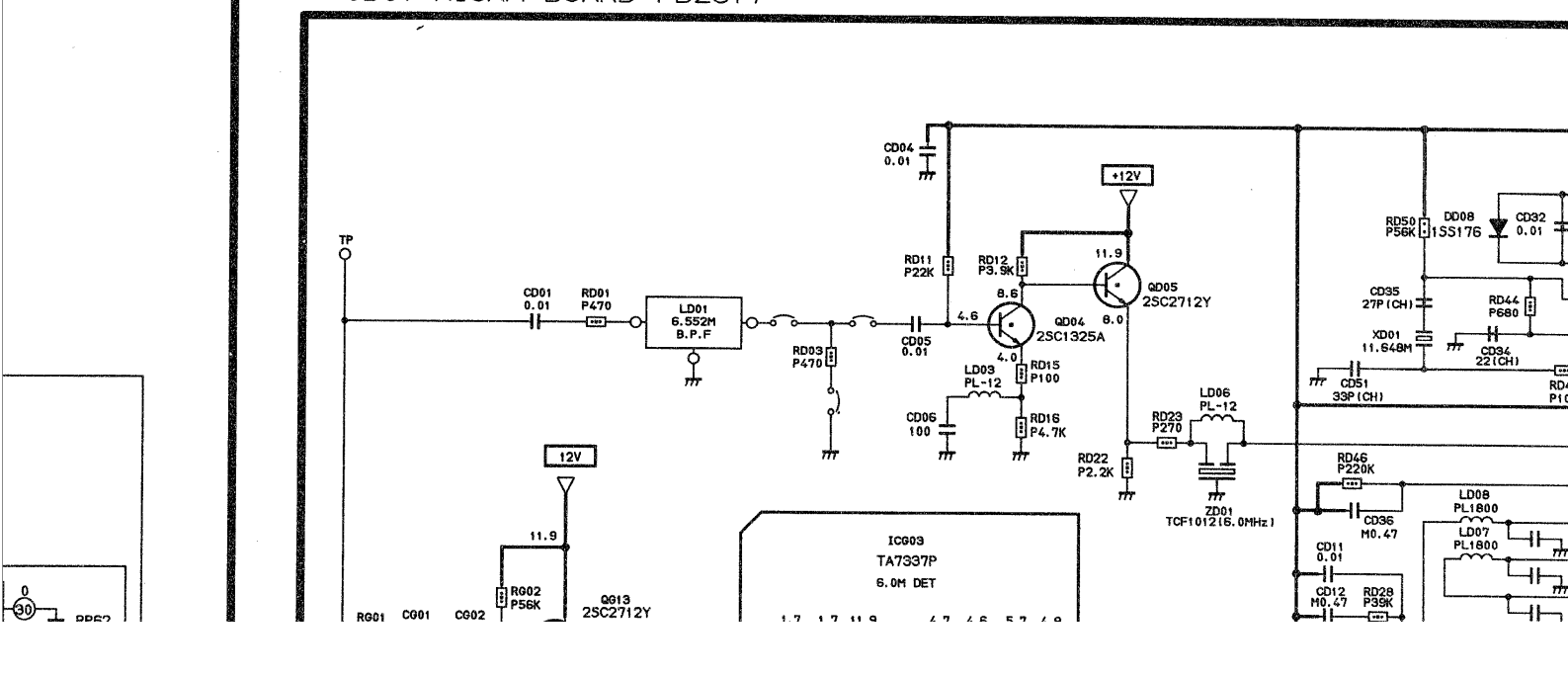


U903B CRT DRIVE BOARD PB3783-2(29") PB4139-2(33")

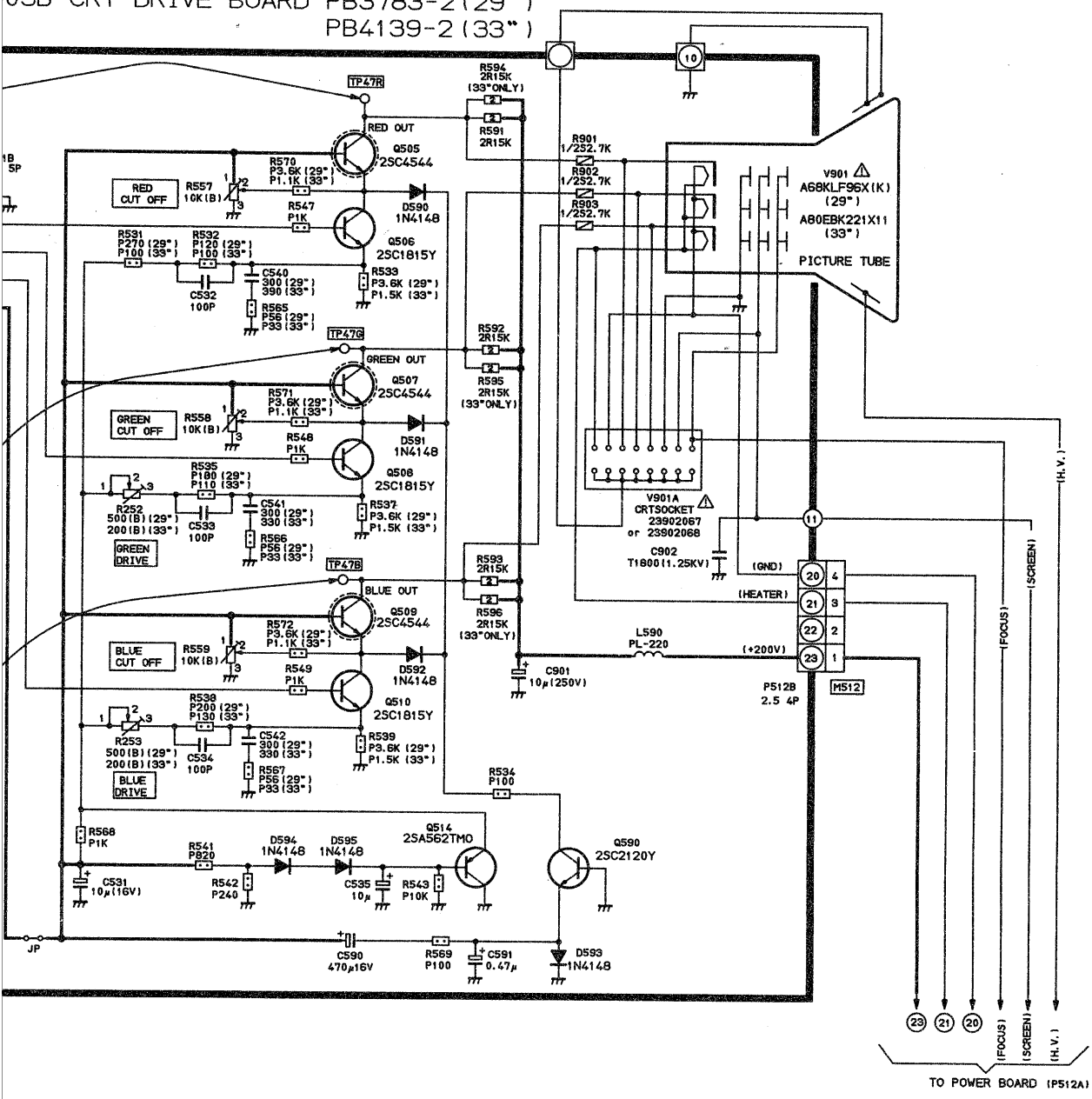


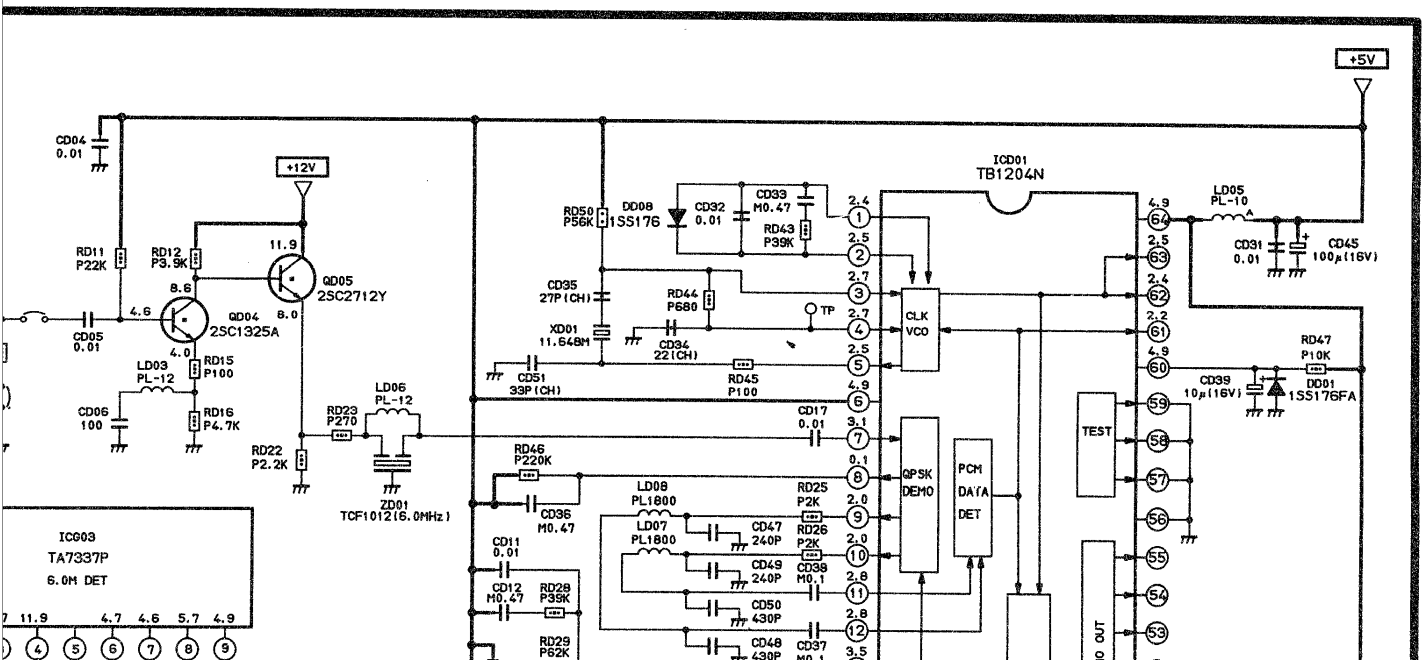
93-06-19 FSE918DL

UD01 NICAM BOARD PB2617



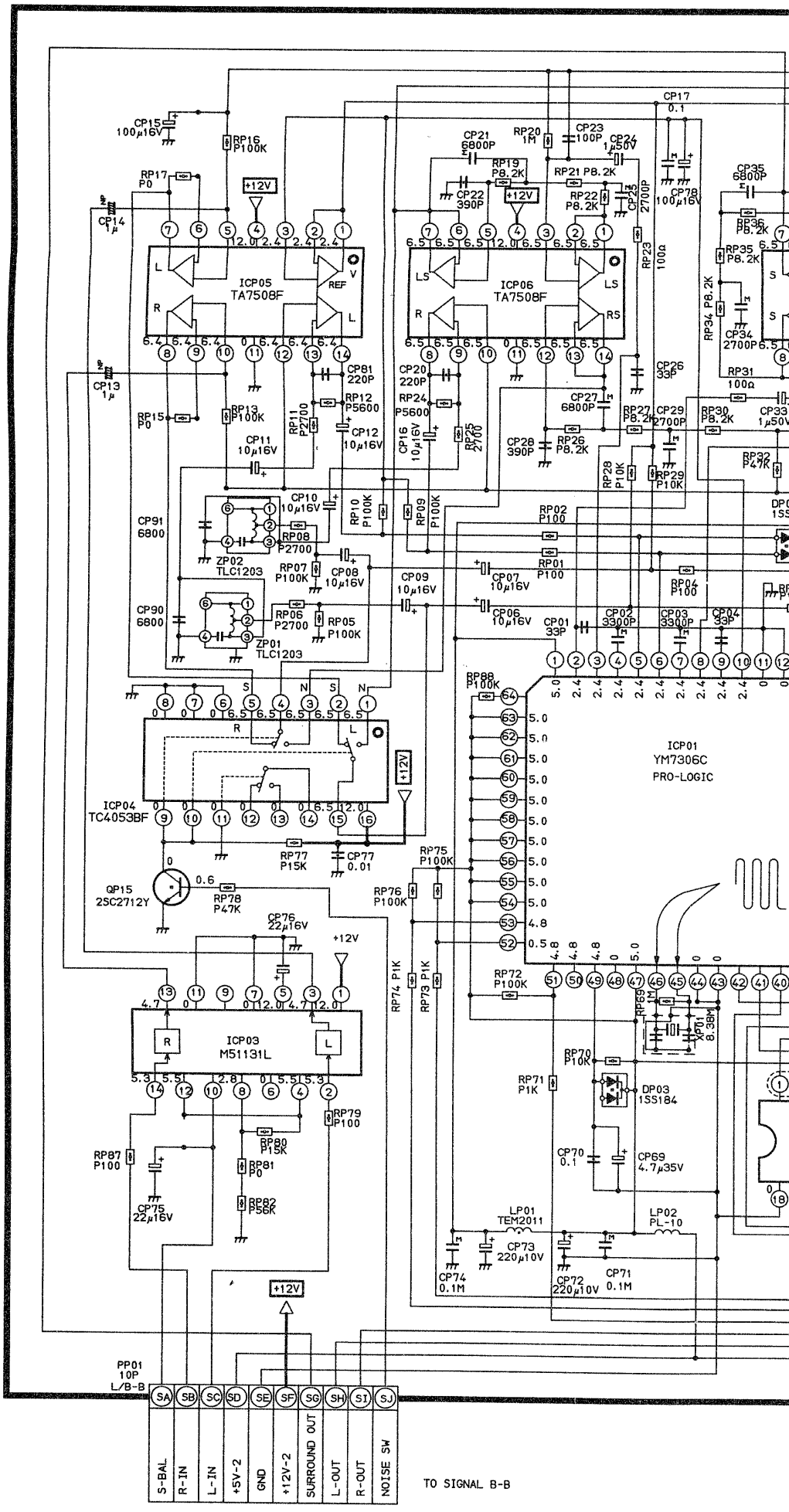
03B CRT DRIVE BOARD PB3783-2(29") PB4139-2(33")



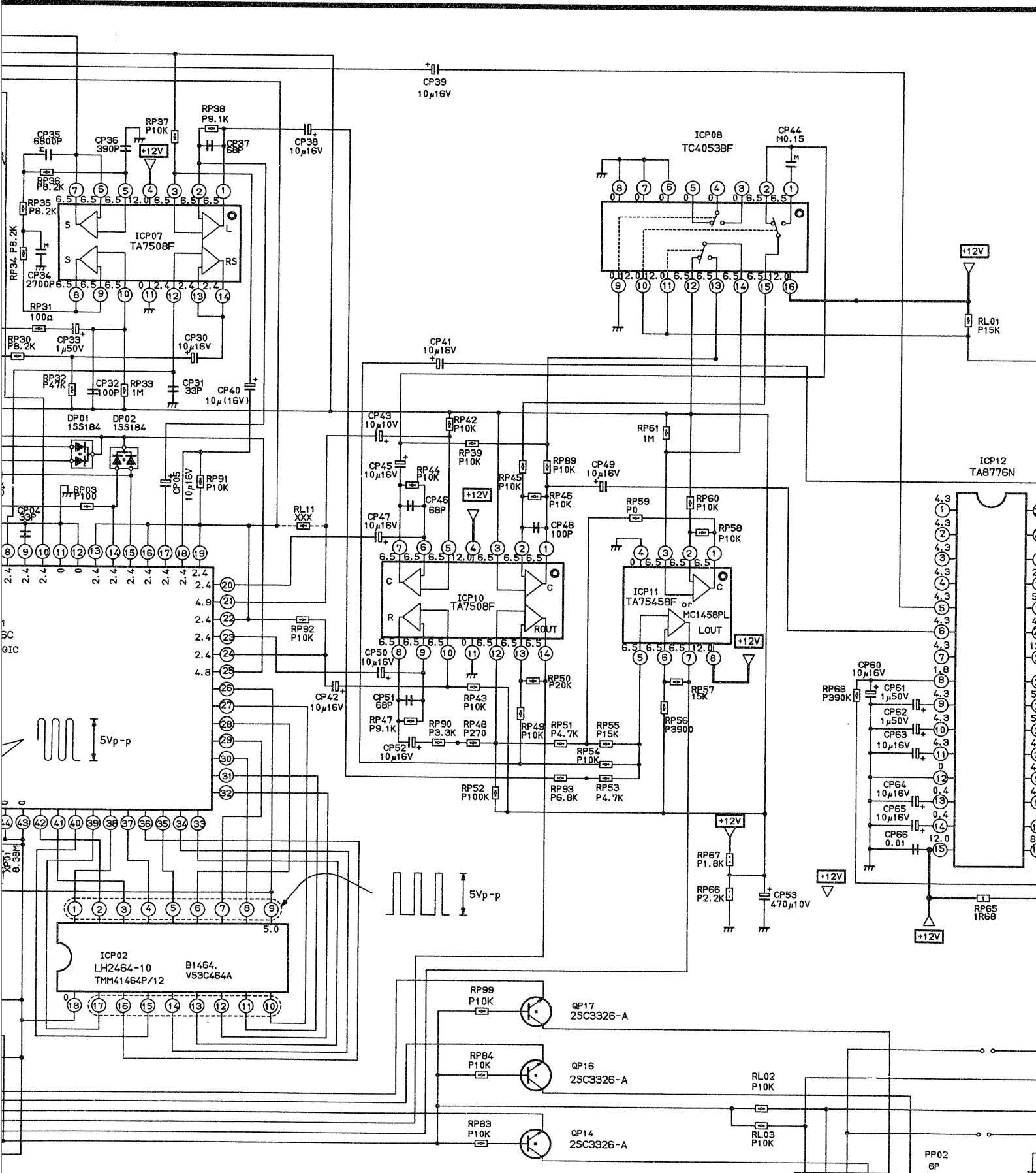


PB3780 PRO-LOGIC MODULE

NOTE:

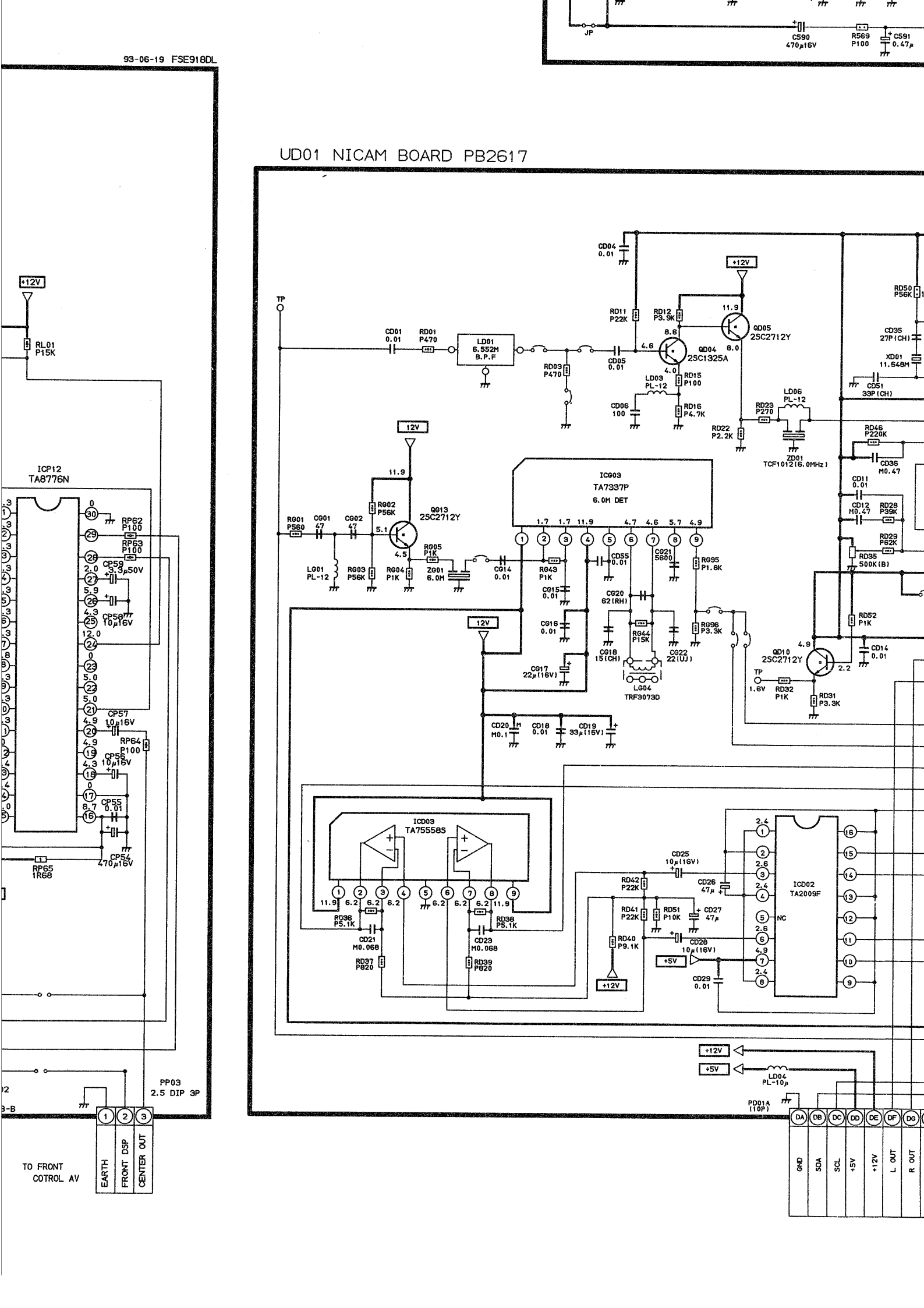


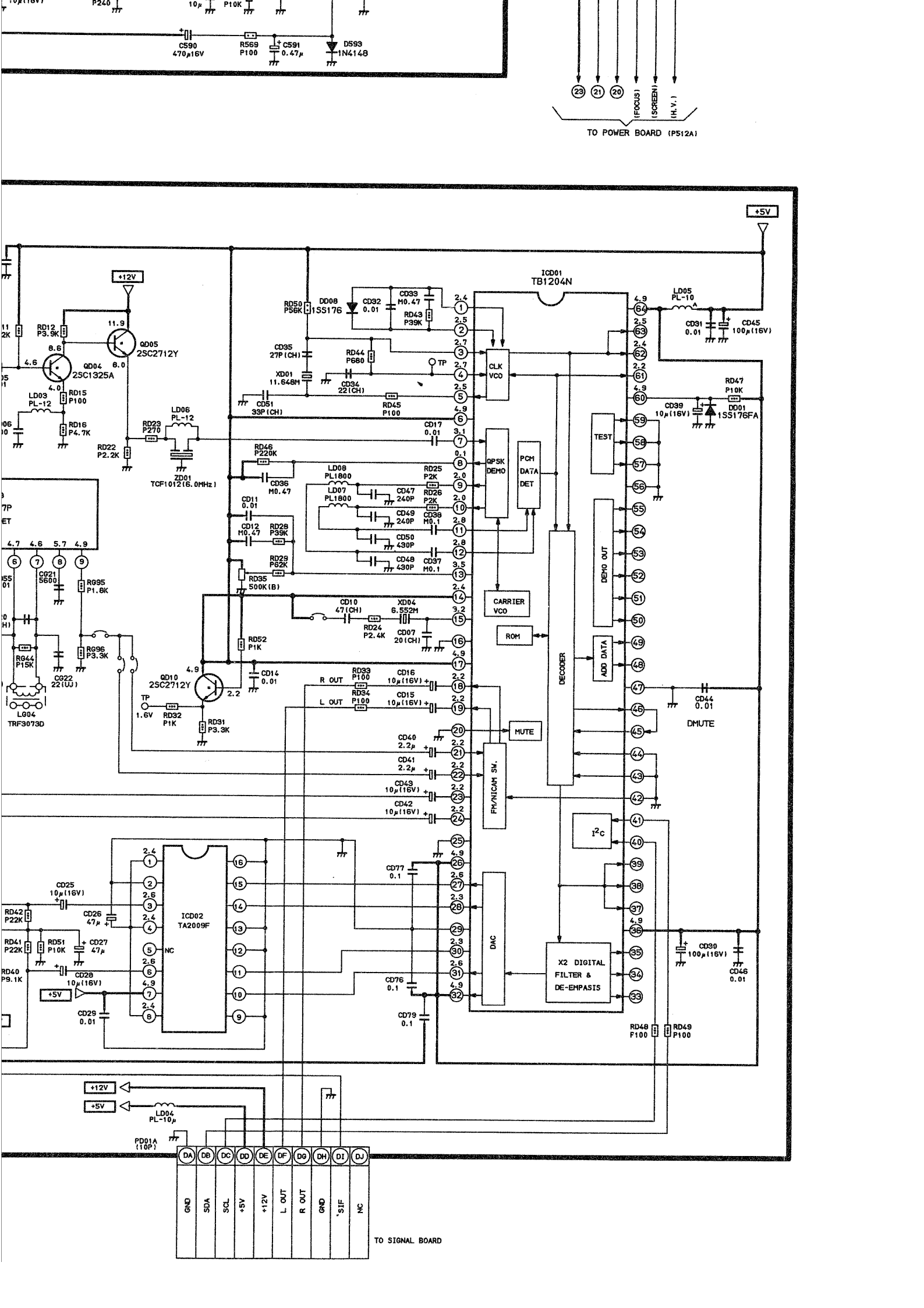
NOTE: Voltage readings are taken at NOMAL mode of Dolby Pro Logic.



93-06-19 FSE918DL

UD01 NICAM BOARD PB2617




C590 470μ16V
R569 P100
C591 0.47μ
D593 1N4148
23
21
20
(FOCUS)
(SCREEN)
(H.V.)
TO POWER BOARD (P512A)
+5V
+12V
ICD01 TB1204N
QD05 2SC2712Y
QD04 2SC1325A
QD10 2SC2712Y
XD01 11.648M
XD04 6.552M
ZD01 TCF1012(6.0MHz)
LG04 TRF3073D
ICD02 TA2009F
CLK VCO
QPSK DEMO
PCM DATA DET
CARRIER VCO
ROM
DECODER
DEMO OUT
ADD DATA
TEST
FM/NICAM SW.
MUTE
DAC
X2 DIGITAL FILTER & DE-EMPASIS
I²C
DMUTE
LD05 PL-10
DD01 1SS176FA
DD08 1SS176
PD01A (10P)
DA DB DC DD DE DF DG DH DI DJ
GND SDA SCL +5V +12V L OUT R OUT GND SIF NC
TO SIGNAL BOARD

TOSHIBA

FILE NO. 033-9427
SUPPLEMENT

SERVICE MANUAL

COLOUR TELEVISION

2939DB, 3339DB
2929DD, 3329DD

– SUMMARY –

TEXT Board is changed to new one in above models. The revised documents are as follows.
Use this manual together with each original manual which is described below.

1. CHANGE OF TEXT BOARD

From	To
Y994Z (UF01) 23369726 PB2619	Y994Z (UF01) 23702841 PB4600

2. REVISED DOCUMENTS
   Parts list, PC Board wiring diagram and Schematic diagram.

3. FILE NUMBERS OF ORIGINAL MANUALS

File No.	Model
050-653	2929DD
053-653	3329DD
050-687	2939DB:3339DB

PRINTED IN JAPAN, Feb., 1995 (So)

REPLACEMENT PARTS LIST (TEXT BOARD PB4600)

NOTICE: The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.

ABBREVIATIONS:

Capacitors ..... CD : Ceramic Disk PF : Plastic Film EL : Electrolytic
Resistors ..... CF : Carbon Film CC : Carbon Composition MF : Metal Film
OMF : Oxide Metal Film VR : Variable Resistor FR : Fusible Resistor

(All CD and PF capacitors are ±5%, 50V and all resistors, ±5%, 1/6W unless otherwise noted.)

(a) When SAA5246AP/E is used for TELETEXT IC (ICF02) used in the servicing TV set;

Location No.	Part No.	Description
CF01	24232103	CD, 0.01μF, +80%, -20%
CF02	24797100	EL, 10μF, ±20%, 50V
CF03	24232103	CD, 0.01μF, +80%, -20%
CF04	24797100	EL, 10μF, ±20%, 50V
CF05	24212102	CD, 1000pF, ±10%
CF06	24353150	CD, 15pF
CF07	24232103	CD, 0.01μF, +80%, -20%
CF08	24590104	PF, 0.1μF
CF09	24085944	EL, 2.2μF, ±20%, 50V, Non-Polar
CF10	24794330	EL, 33μF, ±20%, 16V
CF11	24232103	CD, 0.01μF, +80%, -20%
CF16	24353080	CD, 8pF, ±0.25pF
CF17	24797100	EL, 10μF, ±20%, 50V
CF18	24590104	PF, 0.1μF
CF19	24794101	EL, 100μF, ±20%, 16V
CF20	24473220	CD, 22pF
RF01	24366332	CF, 3300 ohm
RF03	24366100	CF, 10 ohm
RF04	24366273	CF, 27k ohm
RF05	24366472	CF, 4700 ohm
RF06	24366103	CF, 10k ohm
RF07	24366103	CF, 10k ohm
RF08	24366101	CF, 100 ohm
RF09	24366102	CF, 1k ohm
RF13	24366101	CF, 100 ohm
RF14	24366101	CF, 100 ohm
RF15	24366392	CF, 3900 ohm
RF16	24366103	CF, 10k ohm
RF17	24366332	CF, 3300 ohm

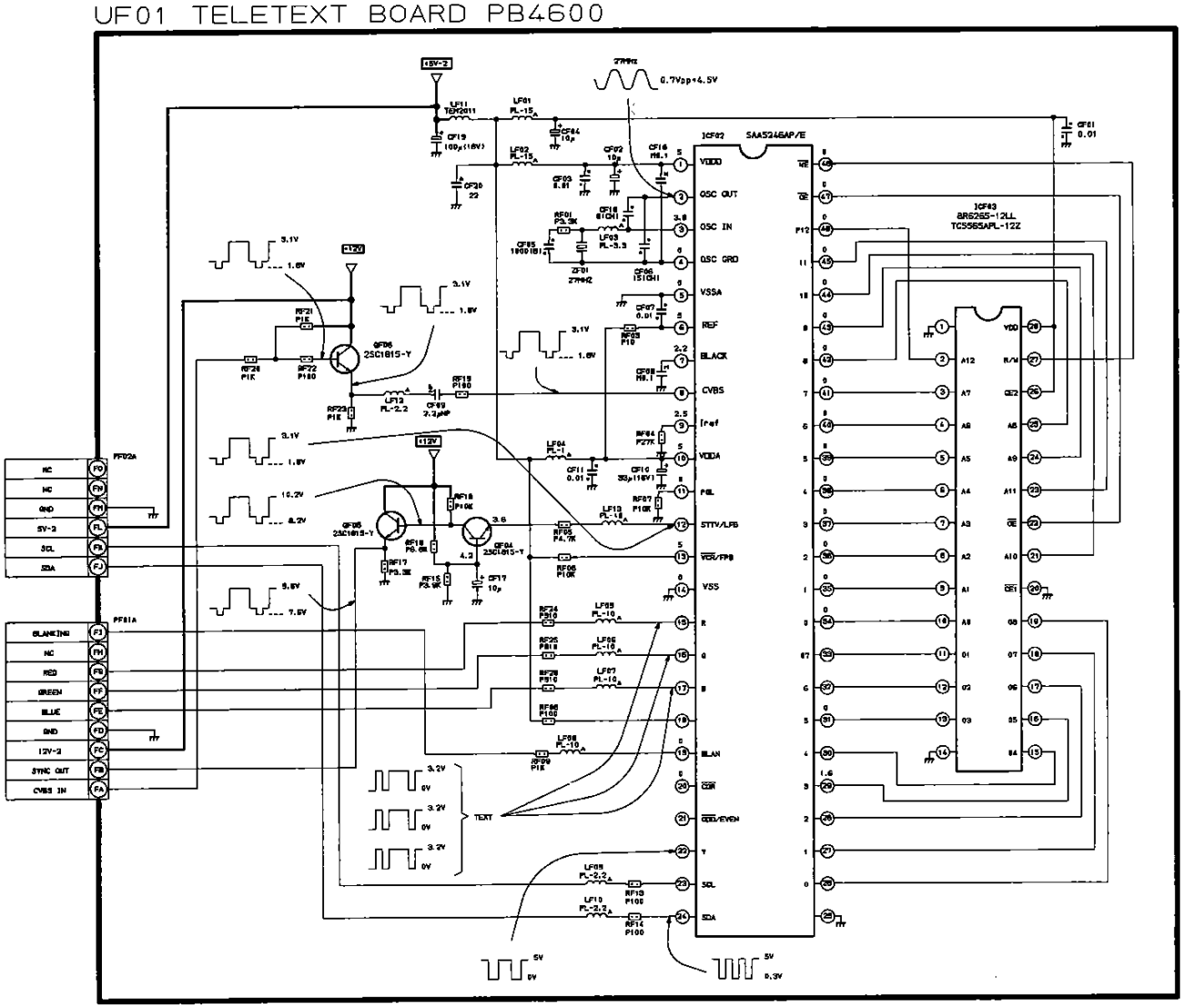
Location No.	Part No.	Description
RF18	24366682	CF, 6800 ohm
RF19	24366101	CF, 100 ohm
RF20	24366102	CF, 1k ohm
RF21	24366102	CF, 1k ohm
RF22	24366101	CF, 100 ohm
RF23	24366102	CF, 1k ohm
RF24	24366911	CF, 910 ohm
RF25	24366911	CF, 910 ohm
RF26	24366911	CF, 910 ohm
LF01	23238712	Coil, Peaking, TRF4150J
LF02	23238712	Coil, Peaking, TRF4150J
LF03	23238720	Coil, Peaking, TRF4339AJ
LF04	23238562	Coil, Peaking, TRF4109AJ
LF05	23238714	Coil, Peaking, TRF4100AJ
LF06	23238714	Coil, Peaking, TRF4100AJ
LF07	23238714	Coil, Peaking, TRF4100AJ
LF08	23238714	Coil, Peaking, TRF4100AJ
LF09	23238506	Coil, Peaking, TRF4229AJ
LF10	23238506	Coil, Peaking, TRF4229AJ
LF11	23103859	Coil (Ferrite Bead), TEM2011
LF12	23238506	Coil, Peaking, TRF4229AJ
LF13	23238714	Coil, Peaking, TRF4100AJ
ICF02	23904139	IC, SAA5246AP/E
ICF03	23904315	IC, BR6265-12LL
QF04	23114433	Transistor, 2SC1815-Y
QF05	23114433	Transistor, 2SC1815-Y
QF06	23114433	Transistor, 2SC1815-Y
ZF01	23153012	Crystal, 27MHz

(b) When SAA5281P/E is used for TELETEXT IC (ICF02) used in the servicing TV set;

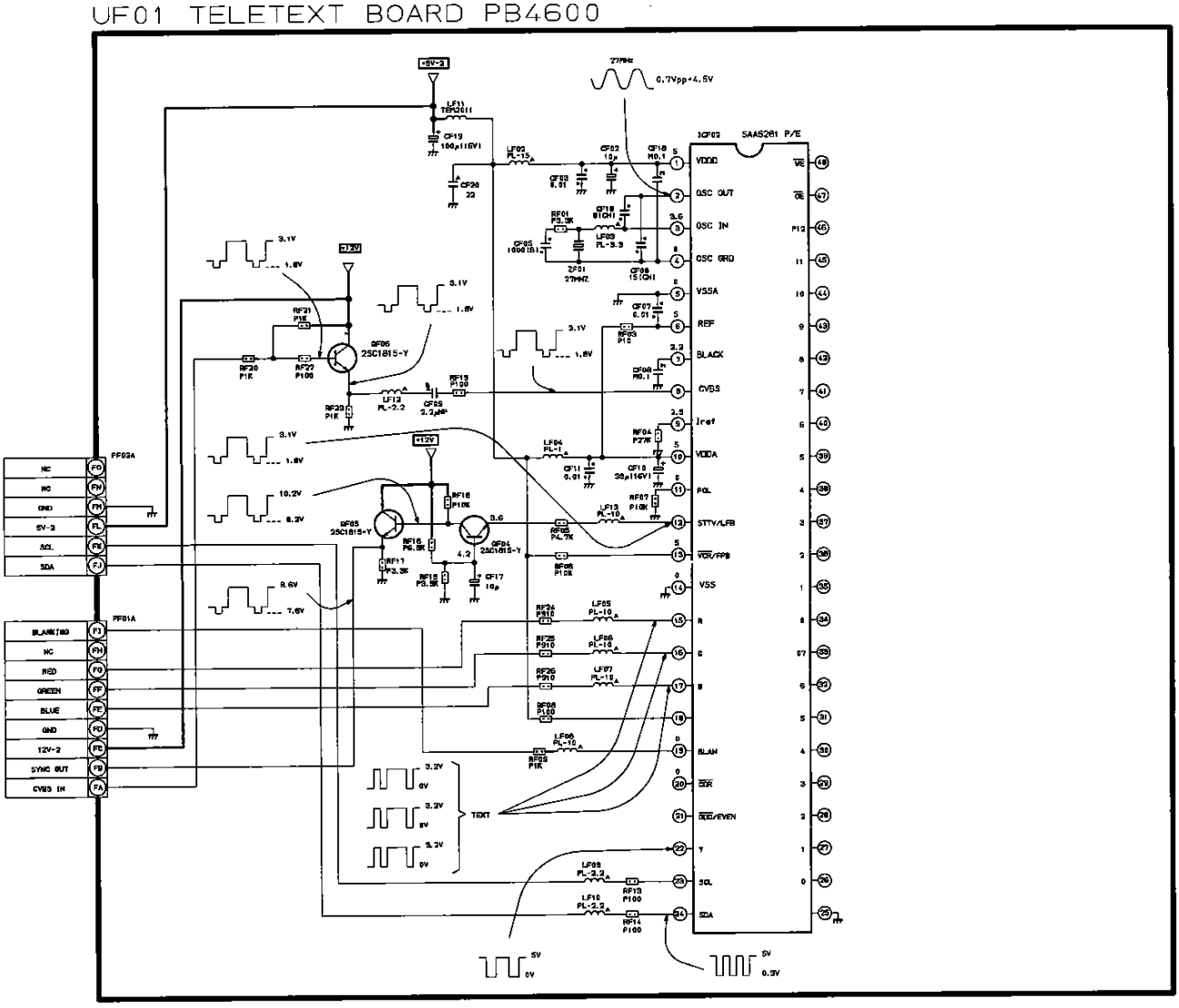
Location No.	Part No.	Description
CF02	24797100	EL, 10μF, ±20%, 50V
CF03	24232103	CD, 0.01μF, +80%, −20%
CF05	24212102	CD, 1000pF, ±10%
CF06	24353150	CD, 15pF
CF07	24232103	CD, 0.01μF, +80%, −20%
CF08	24590104	PF, 0.1μF
CF09	24085944	EL, 2.2μF, ±20%, 50V, Non-Polar
CF10	24794330	EL, 33μF, ±20%, 16V
CF11	24232103	CD, 0.01μF, +80%, −20%
CF16	24353080	CD, 8pF, ±0.25pF
CF17	24797100	EL, 10μF, ±20%, 50V
CF18	24590104	PF, 0.1μF
CF19	24794101	EL, 100μF, ±20%, 16V
CF20	24473220	CD, 22pF
RF01	24366332	CF, 3300 ohm
RF03	24366100	CF, 10 ohm
RF04	24366273	CF, 27k ohm
RF05	24366472	CF, 4700 ohm
RF06	24366103	CF, 10k ohm
RF07	24366103	CF, 10k ohm
RF08	24366101	CF, 100 ohm
RF09	24366102	CF, 1k ohm
RF13	24366101	CF, 100 ohm
RF14	24366101	CF, 100 ohm
RF15	24366392	CF, 3900 ohm
RF16	24366103	CF, 10k ohm
RF17	24366332	CF, 3300 ohm

Location No.	Part No.	Description
RF18	24366682	CF, 6800 ohm
RF19	24366101	CF, 100 ohm
RF20	24366102	CF, 1k ohm
RF21	24366102	CF, 1k ohm
RF22	24366101	CF, 100 ohm
RF23	24366102	CF, 1k ohm
RF24	24366911	CF, 910 ohm
RF25	24366911	CF, 910 ohm
RF26	24366911	CF, 910 ohm
LF02	23238712	Coil, Peaking, TRF4150J
LF03	23238720	Coil, Peaking, TRF4339AJ
LF04	23238562	Coil, Peaking, TRF4109AJ
LF05	23238714	Coil, Peaking, TRF4100AJ
LF06	23238714	Coil, Peaking, TRF4100AJ
LF07	23238714	Coil, Peaking, TRF4100AJ
LF08	23238714	Coil, Peaking, TRF4100AJ
LF09	23238506	Coil, Peaking, TRF4229AJ
LF10	23238506	Coil, Peaking, TRF4229AJ
LF11	23103859	Coil (Ferrite Bead), TEM2011
LF12	23238506	Coil, Peaking, TRF4229AJ
LF13	23238714	Coil, Peaking, TRF4100AJ
ICF02	23904779	IC, SAA5281P/E
QF04	23114433	Transistor, 2SC1815-Y
QF05	23114433	Transistor, 2SC1815-Y
QF06	23114433	Transistor, 2SC1815-Y
ZF01	23153012	Crystal, 27MHz

UF01 TELETEXT BOARD PB4600

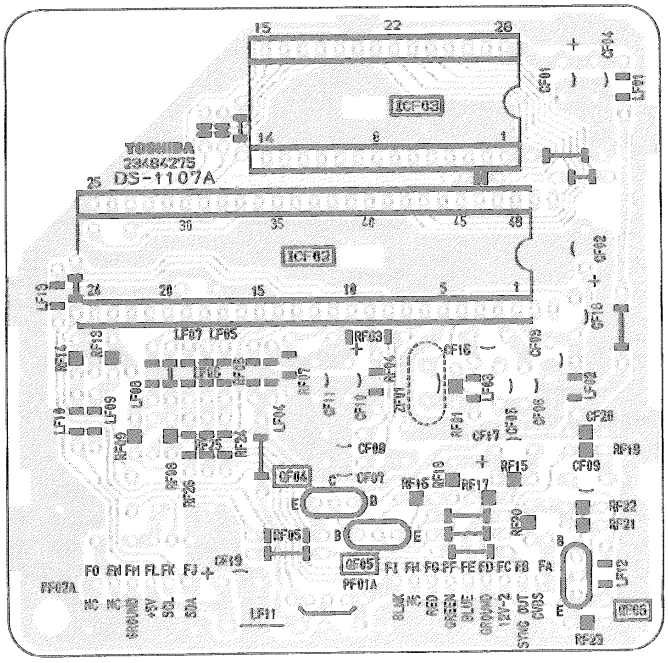


UF01 TELETEXT BOARD PB4600



TEXT BOARD PB4600

BOTTOM (FOIL) SIDE



TOSHIBA CORPORATION

1-1, SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105-01, JAPAN